The University of New Mexico Faculty Senate

Faculty Senate Meeting Agenda March 22, 2016 3:00 P.M. Scholes Hall Roberts Room

AGENDA TOPICS

3:00 1. Approval of Agenda

2. Acceptance of the February 23, 2016 Minutes

3:05 3. Posthumous Degree For Markel Byrd

4. Faculty Senate President's Report 3:10

CONSENT AGENDA TOPICS

3:25 7. Form C from the Curricula Committee

C1678 MPH - Health Systems, Services, and Policy Concentration

C1789 BS Nuclear Engineering

C1783 Art Education Minor
C1682 Master of Engineering in Civil Engineering

C1415 MS in Physical Education Exercise Science Concentration

C1571 GCERT Applied Behavior Analysis: Research Based Interventions for Individuals

C1603 Associate of Arts in Criminology

C1604 GCERT Instruction for Students with Intensive Social, Language, and Behavioral Needs

C1627 Community Health Education Minor (NEW)

C1644 Master of Accounting Professional Accounting Concentration

C1650 PhD in PESES Exercise Science

C1690 Bachelor of Science in Environmental Science

C1691 Environmental Science Minor

C1694 Graduate Certificate in Women Studies

C1695 PhD Psychology Quantitative Methodology Concentration & Emphasis

C1705 Master of Architecture Plan III

C1713 Master of Community and Regional Planning

C1714 Bachelor of Arts Environmental Planning and Design Landscape Architecture Concentration

C1715 Bachelor of Arts in Music

C1721 Ph.D. in Psychology with M.S. Enroute

C1722 PhD Psychology Clinical Concentration C1723 CS 108L UNM Core Course (NEW)

C1727 Master of Accounting Advanced Concentration

C1728 Master of Accounting Tax Concentration C1729 Master of Accounting Information Assurance Concentration

C1732 (Dual Degree) MCRP/MA Latin American Studies

C1733 MBA Management Information Systems Concentration

C1737 M.A. Economics Plan II

C1738 MCRP Indigenous Planning Concentration (NEW)

C1740 AA Early Childhood Multicultural Education LA

C1741 AA PreProfessional Elementary Education (LA)

C1760 AS Computer Science (LA)

C1776 M.S. in Mechanical Engineering

C1791 Architecture Minor (NEW)

C1792 Design Studies Minor (NEW)

C1794 Master of Architecture Track Three C1795 Master of Architecture Track 2.5 C1796 Master of Architecture Track Two

C1812 MS Chemical Engineering

C1779 U.S. and Global Diversity and Inclusion UG Degree

C1361 BA Family Studies

C1362 Human Development and Family Relations Minor

C1667 MS Information Systems & Assurance

C1680 MFA in Dance

C1683 PhD Biomedical SciencesInfectious Disease & Immunology Concentration

C1697 BS Human Development & Family Relations

C1698 Family Studies Minor

C1699 BS Family and Child Studies Human Development & Family Relations Concentration

C1701 BS Family Studies

C1702 PhD Latin American Studies w/ MA En Route

C1703 PhD Latin American StudiesCommunication Concentration

C1704 MA Latin American Studies

C1706 BS Early Childhood Multicultural Education

C1708 BS Family and Child Studies Early Childhood Multicultural Ed Licensenure PreK to Grade 3 Concent

C1709 BS Family and Child Studies Early Childhood Education & Development Concentration

C1726 PhD Sociology

C1747 MA SpanishHispanic Linguistics Concentration

C1790 BAA Design Studies Concentration (NEW)

C1793 BAA PreProfessional Concentration (NEW) C1799 Bachelor of Music, Theory and Composition Concentration

C1800 Bachelor of Music Education, Instrumental Concentration

C1801 Bachelor of Music Education, Vocal Concentration

C1811 MS Biomedical Engineering

http://facgov.unm.edu/agenda/Archive1516/March2016/index.html

C1813 BSME Mechanical Engineering C1824 Family and Child Studies (FCS) Subject Code

TYPE OF ITEMS/ PRESENTER(S)

FS President Stefan Posse

Action:

FS President Stefan Posse

Informatin: Dean Kate Krause

Information:

FS President Stefan Posse

Action:

FS President-Elect Pamela Pyle

AGENDA TOPICS

3:30	8. Form D For Graduate Certificate in Race and Social Justice	Action: Professor Nancy Lopez
3:35	9. Faculty Athletic Representative Report	Information: Faculty Representative of NCAA , Amy Neel
3:50	10. Talent Managment System-UNMjobs	Information: Theresa Ramos, Director of the Office of Faculty Affairs and Services
4:05	11. Free Speech Survey Vote	Action: FS President Stefan Posse
4:15	12.Dean of Students	Information:
	- Classroom Management - Handling Disruptive and Disturbing Student Behavior - Resources for Faculty	Clery Act Compliance Officer, Rob Burford
4:30	13. Discussion on Changes in Regent's Policies regarding HSC Governance	Information: Provost Abdallah, FS President Stefan Posse
5:00	14. Adjournment	

NOTES:

- 1. All faculty are invited to attend Faculty Senate meetings.
 2. Full agenda packets are available at http://www.unm.edu/~facsen/
 3. All information pertaining to the Faculty Senate can be found at http://www.unm.edu/~facsen/
 4. Questions should be directed to the Office of the Secretary, Scholes 103, 277-4664
 5. Information found in agenda packets is in draft form only and may not be used for quotes or dissemination of information until approved by the Faculty Senate. Faculty Senate.

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	DEGREE/PROGRAM CHANGE FORM C Form Number: C1415	POF
	Form Number, C1415	
Fields marked with * are required		
Name of Initiator: Ann Gibson Email: alg@unr	m.edu Phone Number: 505 277-8173 Dat	e : 08-24-2014
Associated Forms exist?* Yes ▼	Initiator's Title* Associate Professor: Health Ex	ercise & Sports Scie
Faculty Contact* Ann Gibson		ntact* Todd Seidler
Department* HESS		* tseidler@unm.edu
Branch	Admi	in Phone* 277-2783
Proposed effective term		
Semester Fall ▼ Year 2016 ▼		
	Course Information	
Select Appropriate Program* Graduate Degre	e Program ▼	
Name of New or Existing Program* MS in Physi		ı
	e Type MS	
Select Action		
Exact Title and Requirements as they should a See current catalog for format within the respective		ad current and proposed requirements.*
Current and proposed POS - MS in PE - Exercise	Science.pdf	
Does this change affect other departmenta	Il program/branch campuses? If yes, indicate	below.
Reason(s) for Request* (enter text below or up The changes to the MS (Exercise Science) currie This is a cross-listed class and the cr hrs need to Training a required course at the graduate level (students.	culum are two-fold: (A) Adjust credit hours for the match at both the UG and GR level. (B) We have	e made PE-P 544 Physiology of Resistance
Upload a document that inlcudes justification for workload implications.* (upload a doc/pdf file)	or the program, impact on long-range planning	g, detailed budget analysis and faculty
Justification for MSc Ex Sci changes for Form C.p	df	
Are you proposing a new undergraduate de	egree or new undergraduate certificate? If yes	s, upload the following documents.
Upload a two-page Executive Summary author	ized by Associate Provost.* (upload a doc/pdf	file)
Upload memo from Associate Provost authoriz	zing go-ahead to full proposal.* (upload a doc/p	odffile)
Approve and Sign Off	Send back to Initiator (Ann Gibson) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Univers	sity of New Mexico Albuquerque, NM 87131-0001	

Proposed changes to Ex Sci MSc Curriculum as approved by HESS faculty August 2013

- 1. Rename PE-P 501 from "Intermediate Exercise Physiology" to "Advanced Exercise Physiology"; this will become a graduate only course as it will be dropped from UG curriculum (Form "A" accompanying packet)
- 2. Sunset PE-P 536 Biochemistry Lab (Form "A" accompanying packet)
- 3. Replace PE-P 535 with new course PE-P 527 Metabolic Considerations of Exercise Physiology as much of the research in our field is focusing on metabolic aspects of exercise; additionally, the field is going more molecular and this revised course will prepare the students to better follow the trends in the field.
- 4. Add new course PE-P 544 Physiology of Resistance Training to curriculum given new programmatic capabilities to support pursuit of strength and conditioning careers
- 5. Note proposed change to PE-P 502 Designs for Fitness from a 3 cr class to a 4 cr class given the enormous amount of theoretical and practical skill now required for fitness industry careers and certifications

In a nutshell, our Ex Sci grad curriculum has not changed in at least the past 14 years, but the field has changed substantially. We believe our proposed curricular modifications reflect these changes and student feedback gathered over the past 4 years. Proposed changes to the MSc curriculum complement concurrently proposed changes to the PhD and Undergraduate curricula.

Many of our Exercise Science undergrads apply for the MSc in Exercise Science or the Generalized MSc in Physical Education. Until the proposed changes are made, there are few, if any, Exercise Science related 500-level courses they can take as they already took the cross-listed undergraduate course.

Additionally, we are limited by lab space and the need to comply with Fire Marshall caps; given the fact that Designs is a cross-listed course (PE-P 470/502) and required by Exercise Science and Athletic Training, enrollment can easily surpass the Fire Code cap. Therefore, we need to officially create lab sections as indicated in the PEP470/502 Form "A" in order to accommodate everyone and make the practical skill development meaningful.

There is no anticipated need for new faculty to address these proposed changes. By creating lab sections for PEP470/502 we will be better able to utilize the existing facilities and remain within the confines of the Fire Code capacity limitations. Furthermore, adjusting the cr hr from 3 to 4 (PEP470/502) will, finally, recognize the amount of faculty and student time and effort inherent in teaching, learning and mastering the hands-on skills required of those pursuing a career or advanced education in Exercise Science/Physiology. In terms of long-range planning, the need for lab sections will require coordinated scheduling efforts. At the MSc level, there is a 1 cr hr increase in total credit hours required for graduation which will potentially increase departmental revenue.

MS in Physical Education - Exercise Science

CURRENT PROGRAM OF STUDY (34 CREDIT HOURS)		PROPOSED PROGRAM OF STUDY (35 CREDIT HOURS)	
REQUIRED COURSES (28 Credit Hours)	Cr Hr	REQUIRED COURSES (32 Credit Hours)	Cr Hr
EDPY 603 Applied Statistical Design and Analysis : Note: Currently substituting EDPY 511 for EDPY 603	3	EDPY 603 Applied Statistical Design and Analysis or	3
EDPY 505 Conducting Qualitative Educational Research	3	EDPY 511 Intro Educational Statistics	3
or		EDPY 505 Conducting Quantitative Educational Research	3
PEP 507 Research Design in HPER	3	or	
PEP 500 Exercise Science Seminar	1	PEP 507 Research Design in HPER	3
PEP 501 Intermediate Exercise Physiology	3	PEP 500 Exercise Science Seminar	1
PEP 502 Designs for Fitness	3	PEP 501 Advanced Exercise Physiology	3
PEP 503 EKG Interpretation	3	PEP 502 Designs for Fitness	4
PEP 508 Exercise Testing and Interpretation	3	PEP 503 EKG Interpretation	3
PEP 530 Laboratory Procedures and Instrumentation in App	li⊢ 3	PEP 508 Exercise Testing and Interpretation	3
PEP 532 Body Composition	3	PEP 530 Laboratory Procedures and Instrumentation in Applied P	3
PEP 696 Internship	3	PEP 532 Body Composition	3
		PEP 544 Physiology of Resistance Training	3
		PEP 696 Internship	3
Elective courses (6 cr hr)*	6		
Elective courses from MS Exercise Science (below)		Elective course options (3 cr hr)*	3
or related disciplines (e.g. Nutr, Biol, Biom, Chem, etc.)		Elective courses from MS PE - Exercise Science (below)	
may be substituted for any required courses that were		or related disciplines (e.g. Nutr, Biol, Biom, Chem, etc.)	
taken prior to acceptance into MSc program		may be substituted for any required courses that were taken	
MS EXERCISE SCIENCE ELECTIVES		prior to acceptance into MSc program	
PEP 523 Biomechanics		MS PE - EXERCISE SCIENCE ELECTIVES	
PEP 528 Neuromuscular Performance		PEP 528 Neuromuscular Performance	
PEP 535 Exercise Biochemistry		PEP 527 Metabolic Considerations of Exercise Science	
PEP 579 Sports Physiology		PEP 562 Exercise in Extreme Environments	
PEP 587 Physical Activity and Aging		PEP 579 Sports Physiology	
PEP 625 Writing for Professional Publication		PEP 587 Physical Activity and Aging	
PEP 627 Seminar in Applied Physiology		PEP 593 Selected Topics:	
PEP 593 Selected Topics:			
Exercise Biochemistry Laboratory			
Exercise Endocrinology			
Exercise in Extreme Environments			
Pediatric Exercise Physiology			
* Advisor approval required; POS committee		* Advisor approval required; POS committee approval	

required for course substitutions

approval required for course substitutions

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	DEGREE/PROGRAM CHANGE	POF
	FORM C Form Number: C1789	
Fields marked with * are required		
Name of Initiator: Gary Cooper Email: garywo	@unm.edu Phone Number: 505 277-2557	Date: 10-30-2015
	Initiator's Title* Associate Professor: Chemical 8	
Faculty Contact* Gary Cooper		ontact* Elaine Finke
Department* Nuclear Engineering		fefinke01@unm.edu
Branch Main	Adm	in Phone* 277-2692
Proposed effective term		
Semester Fall ▼ Year 2016 ▼		
	Course Information	
Select Appropriate Program* Undergraduate		
Name of New or Existing Program* BS Nuclear		
Select Category * Major ▼ Degree Select Action Revision ▼	e Type BS	
Select Action Revision		
Exact Title and Requirements as they should a See current catalog for format within the respective		d current and proposed requirements.*
Proposed Wording Changes_BS Nuclear Engine	eering.docx	
☑ Does this change affect other department	al program/branch campuses? If yes, indicate b	pelow.
mathematics class, mechanical engineering clas	oload a doc/pdf file) elective which could be fulfilled by a nuclear enging s, etc. However, the requirement for a general tection in hours. Thus, we are not increasing workloa	chnical elective has always been required
Upload a document that inlcudes justification f workload implications.* (upload a doc/pdf file) Justifications for Changes to the BS Nuclear Eng		detailed budget analysis and faculty
Sustincations for Changes to the Bo Nuclear Eng	meering r rogram.docx	
Are you proposing a new undergraduate de	egree or new undergraduate certificate? If yes,	upload the following documents.
Upload a two-page Executive Summary author	rized by Associate Provost.* (upload a doc/pdf fi	le)
Upload memo from Associate Provost authoriz	zing go-ahead to full proposal.* (upload a doc/po	If file)
Approve and Sign Off	Send back to Initiator (Gary Cooper) Comment on this Form	Committee Review
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Curriculum in Nuclear Engineering

The Bachelor of Science Program in Nuclear Engineering is accredited by the Engineering Accreditation Commission of ABET.

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The Bachelor of Science Nuclear Engineering Program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Credit hHours required for graduation: 124 (15)

		Credit Hours
First Year	First Semester	
NE 101	Introduction to Nuclear Engineering	1
CHEM 121	General Chemistry	3
CHEM 123L	General Chemistry Laboratory	1
ENGL 110 (or ENGL 112; or ENGL 113)	Accelerated Composition (or Composition II; or Enhanced Composition)	3
MATH 162	Calculus I	4
	Core Humanities Elective (24)	3
		15
	Second Semester	
PHYC 160	General Physics	3
CHEM 122	General Chemistry II	3
CHEM 124L	General Chemistry II Laboratory	1
MATH 163	Calculus II	4
ENGL 120	Composition III	3

CS 151L	Computer Programming Fundamentals for Non-Majors	3
		17
Second Year	First Semester	
NE 230	Principles of Radiation Protection	3
PHYC 161	General Physics	3
MATH 264	Calculus III	4
ENGL 219	Technical and Professional Writing	3
ECON 105	Introductory Macroeconomics	3
		16
	Second Semester	
NE 213	Laboratory Electronics for Nuclear Engineers	3
NE 231	Principles of Nuclear Engineering	3
NE 314	Thermodynamics and Nuclear Systems	3
NE 371	Nuclear Materials Engineering	2
MATH **316	Applied Ordinary Differential Equations	3
		14
Third Year	First Semester	
NE 311	Introduction to Transport Phenomena	3
NE 315	Nuclear Engineering Analysis and Calculations	3
NE **323L	Radiation Detection and Measurement	3
CE 202	Engineering Statics	3
	Nuclear Engineering Technical Elective (34)	3

		15	
	Second Semester		
NE 312	Unit Operations	3	
NE 313L	Introduction to Laboratory Techniques for Nuclear Engineering	3	
NE *330	Nuclear Engineering Science	3	
	Nuclear Engineering Technical Elective (44)	3	
	Core Fine Arts Elective (2)	3	Formatted: Superscript
		15	
Fourth Year (5-2)	(64) First Semester		
NE *410	Nuclear Reactor Theory	3	
NE 462	Monte Carlo Techniques for Nuclear Systems	3	
NE 464	Thermal-Hydraulics of Nuclear Systems	3	
NE *497L	Nuclear Engineering Computational Methods	3	
	Core Humanities Elective (24)	3	
		15	
	Second Semester		
NE *413L	Nuclear Engineering Laboratory I	3	
NE 452	Senior Seminar	1	
NE 470	Nuclear Fuel Cycle and Materials	3	
NE 498L	Nuclear Engineering Design	4	
	Core Second Language (24)	3	
	Core Social and Behavioral Science Elective (24)	3	

Footnotes:

- (15) To count towards graduation credit hours, each course must be completed with a grade of "C-" or better. Courses used to fulfill the UNM Core Curriculum require a grade of "C" or better.
- (21) Students should consult the UNM catalog, LoboTrax, or an advisor to obtain a list of acceptable courses to fulfill the core curriculum requirements. These courses may be taken whenever convenient.
- -⁽²⁾Students must file an application for the B.S.N.E. degree prior to the completion of 95 credit hours of applicable courses.
- (3) Students are encouraged to take the Fundamentals of Engineering (FE) Examination during their senior year. This is the first formal step toward professional registration.
- (34) The NE Technical Elective is chosen from a list of approved upper-division nuclear engineering courses with the approval of the student's advisor.
- (5) To count towards graduation credit hours, each course must be completed with a grade of "C-" or better. Courses used to fulfill the UNM Core Curriculum require a grade of "C" or better.
- (4) The Technical Elective is chosen from a list of approved upper-division technical courses with the approval of the student's advisor.
- (5) Students must file an application for the B.S.N.E. degree prior to the completion of 95 credit hours of applicable courses.
- (6) Students are encouraged to take the Fundamentals of Engineering (FE) Examination during their senior year. This is the first formal step toward professional registration.

Reasons for Requested Changes to the BS Nuclear Engineering Program

- 1. The change to the accreditation statement is required to conform to the specific wording required by the engineering accrediting board: ABET.
- 2. We are changing the required technical electives from two nuclear engineering specific courses to one nuclear engineering technical elective and one general technical elective. When we submitted the original change in our program to reduce the number of required hours, we reduced the number of technical electives from two nuclear engineering technical electives and one general technical elective to two total technical electives. The intent had been to require one nuclear engineering technical elective and one general technical elective. Somehow, in submitting the Form C, the requirement was erroneously listed as two nuclear engineering technical electives. Thus, this change is to correct that original mistake. The faculty believe that because we have a diverse student population, that they need a wider choice of technical electives than they would have if limited to nuclear engineering courses alone. This change required adding a footnote.
- 3. The remaining changes are simply rearranging the footnotes and do not change anything in the program.

Other than as noted in the "effect on other departmental programs" there are no budgetary or workload issues.

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Link to Curricula Forms Process Manual					
DEGREE/PROGRAM CHANGE FORM C Form Number: C1783					
Fields marked with * are required					
Name of Initiator: Claudia Valdes					
Proposed effective term Semester Fall ▼ Year 2016 ▼					
Course Information					
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* Art Education Minor Select Category * Minor ▼ Degree Type Select Action Deletion ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)					
Does this change affect other departmental program/branch campuses? If yes, indicate below.					
Reason(s) for Request* (enter text below or upload a doc/pdf file) Delete Minor Study in Art Education. This minor is insufficient in providing knowledge and preparation to teach art in elementary schools. Students with an elementary education degree with this minor compete for jobs with art education majors who are much more qualified for positions. There has been only student in the minor in the last 15 years. The faculty does not believe the minor serves any useful purpose. There are not students currently enrolled in the minor, thus no accommodations need to be made. There are no current students enrolled in program. No accommodations need to met.					
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)					
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.					
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdffile)					
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)					
Approve and Sign Off Send back to Initiator (Claudia Valdes) Committee Review Comment on this Form					
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Link to Curricula Forms Process Ma	anual	
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1682	POF 2
Fields marked with * are required		
	Initiator's Title* Associate Professor: Civil Engineering Administrative Contact* Nicolo Admin Email* nicluna(e Bingham @unm.edu
Proposed effective term Semester Spring ▼ Year 2016 ▼		
	Course Information	
Select Action Revision ▼	Engineering in Civil Engineering ree Type MENG	
Exact Title and Requirements as they should See current catalog for format within the respect	appear in the catalog. If there is a change, upload curr tive college (upload a doc/pdf file)	ent and proposed requirements.*
FormC_MENG_2015_revisedcatalogtextV2.doc	ex	
Does this change affect other department	tal program/branch campuses? If yes, indicate below.	
for two semesters of graduate seminar, which haprofessionals. (2) We propose changing to a Pla	pload a doc/pdf file) ng program. Two substantial changes are proposed. (1) as proven to be burdensome for the students in the progran III degree option to eliminate the exit exam requireme dents on knowledge that they have already demonstrate	ram who are primarily fulltime working nt. The exam creates an additional
Upload a document that inlcudes justification workload implications.* (upload a doc/pdf file)	for the program, impact on long-range planning, detail	ed budget analysis and faculty
FormC_MENG_2015_justification.docx		
☐ Are you proposing a new undergraduate of	degree or new undergraduate certificate? If yes, uploa	d the following documents.
Upload a two-page Executive Summary author	prized by Associate Provost.* (upload a doc/pdffile)	
Upload memo from Associate Provost author	rizing go-ahead to full proposal.* (upload a doc/pdf file)	
Approve and Sign Off	Send back to Initiator (Mark Charles Stone) Comment on this Form	Committee Review
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Existing Catalog Text

Master of Engineering in Civil Engineering

The Master of Engineering (M.Eng.) in Civil Engineering degree meets the needs of students and practitioners who seek a practice-oriented engineering degree, and is based on course work only without a written thesis or defense. The engineering profession is requesting that students be provided more exposure to engineering design and practice beyond those currently available to undergraduate students. This would specifically include additional training in the traditional studies of engineering science and design, along with expanded emphasis on communication skills (both written and oral) and engineering management.

The M.Eng. degree requirements are:

- 1. 33 credit hours total, plus 2 credit hours of CE 691 (Seminar).
- At least 15 credit hours of practice-oriented-content graduate level civil engineering classes shall constitute the student's core.
- 3. At least 12 elective credit hours of course work from within or outside the department which support the student's area of interest;
- 4. At least 6 credit hours of classes in program/project management.
- 5. A maximum of 12 credit hours can be taken under non-degree status
- 6. At least 18 credit hours must be numbered 500 or higher
- 7. Not more than 15 credit hours can be taken from a single instructor
- 8. General UNM limits, including transfer credit, course work from a single professor, and time of completion.

Proposed Catalog Text

Master of Engineering in Civil Engineering

The Master of Engineering (MENG) in Civil Engineering degree is a coursework-only (*Plan III*) degree with a focus on professional practice. Graduate study leading to the MENG degree will be offered within or by combining six focus areas of civil engineering: construction engineering, environmental engineering, geotechnical engineering, structural engineering and material science, transportation engineering, and water resources-hydraulic engineering.

The MENG degree requirements are:

- 1. 33 credit hours of graduate coursework.
- 2. 15 credit hours of practice-oriented civil engineering classes.
- 3. 12 additional credit hours of coursework that support the student's area of interest.
- 4. 6 additional credit hours that advance the student's management skillset.
- 5. A maximum of 12 credit hours can be taken in transfer and/or non-degree graduate student status.
- 6. At least 18 credit hours must be numbered 500 or higher
- 7. Not more than 15 credit hours can be taken from a single instructor
- 8. General UNM limits, including transfer credit, course work from a single professor, and time of completion.

Justification for the program

The MENG exit exam creates an additional burden for students and faculty while testing students on knowledge that they have already demonstrated through their coursework. The CE seminar is focused on the graduate research program and thus is not highly relevant for the practice-oriented MENG degree program. Further, the CE seminar is consistently over-capacity and thus removal of this requirement will help students to complete their programs in a timely manner.

There will be no impact on other departmental programs/branch campuses.

Impact on long-range planning

The proposed change is well aligned with the long-range plans of UNM, Graduate Studies, SOE, and the CE department. Specifically, the changes will promote increased enrollment in the CE MENG degree program by simplifying the requirements and removal of a barrier from graduation. The existing MENG exit exam under our Plan II option is confusing, intimidating for students, and difficult to administer in a fair and consistent manner. The CE graduate programs committee is working to develop a comprehensive outcomes assessment in anticipation of this request being approved. The outcomes assessment will be coordinated with the SOE Dean's Office and Graduate Studies.

Detailed budget analysis and faculty workload implications

There will be no budget impacts from the proposed changes outside of the anticipated increase in enrollment within the MENG degree program. There will be no impact on faculty workload other than the reduced service requirement associated with serving on MENG exit exams.

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	DEGREE/PROGRAM CHANGE FORM C Form Number: C1415	POF
Fields marked with * are required		
Name of Initiator: Ann Gibson Email: alg@uni	m edu Phone Number: 505 277-8173 Date:	08-24-2014
	Initiator's Title* Associate Professor: Health Exer	
Faculty Contact* Ann Gibson	Administrative Cont	•
Department* HESS	Admin Email* t	seidler@unm.edu
Branch	Admin	Phone* 277-2783
Proposed effective term Semester Fall ▼ Year 2016 ▼		
	Course Information	
Select Appropriate Program* Graduate Degree Name of New or Existing Program* MS in Physic Select Category ★ Concentration ▼ Degree Select Action Revision ▼		
Exact Title and Requirements as they should a See current catalog for format within the respective	ppear in the catalog. If there is a change, upload we college (upload a doc/pdf file)	current and proposed requirements.*
Current and proposed POS - MS in PE - Exercise	Science.pdf	
Does this change affect other departmenta	al program/branch campuses? If yes, indicate bo	elow.
This is a cross-listed class and the cr hrs need to	load a doc/pdf file) culum are two-fold: (A) Adjust credit hours for the I match at both the UG and GR level. (B) We have r (MS and PhD) in order to address requests commo	made PE-P 544 Physiology of Resistance
Upload a document that inlcudes justification for workload implications.* (upload a doc/pdf file) Justification for MSc Ex Sci changes for Form C.p.	or the program, impact on long-range planning,	detailed budget analysis and faculty
_	egree or new undergraduate certificate? If yes,	upload the following documents.
	ized by Associate Provost.* (upload a doc/pdffil	
	zing go-ahead to full proposal.* (upload a doc/pdf	
Approve and Sign Off	Send back to Initiator (Ann Gibson) Comment on this Form	Committee Review
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- 4. Add new course PE-P 544 Physiology of Resistance Training to curriculum given new programmatic capabilities to support pursuit of strength and conditioning careers
- 5. Note proposed change to PE-P 502 Designs for Fitness from a 3 cr class to a 4 cr class given the enormous amount of theoretical and practical skill now required for fitness industry careers and certifications

In a nutshell, our Ex Sci grad curriculum has not changed in at least the past 14 years, but the field has changed substantially. We believe our proposed curricular modifications reflect these changes and student feedback gathered over the past 4 years. Proposed changes to the MSc curriculum complement concurrently proposed changes to the PhD and Undergraduate curricula.

Many of our Exercise Science undergrads apply for the MSc in Exercise Science or the Generalized MSc in Physical Education. Until the proposed changes are made, there are few, if any, Exercise Science related 500-level courses they can take as they already took the cross-listed undergraduate course.

Additionally, we are limited by lab space and the need to comply with Fire Marshall caps; given the fact that Designs is a cross-listed course (PE-P 470/502) and required by Exercise Science and Athletic Training, enrollment can easily surpass the Fire Code cap. Therefore, we need to officially create lab sections as indicated in the PEP470/502 Form "A" in order to accommodate everyone and make the practical skill development meaningful.

There is no anticipated need for new faculty to address these proposed changes. By creating lab sections for PEP470/502 we will be better able to utilize the existing facilities and remain within the confines of the Fire Code capacity limitations. Furthermore, adjusting the cr hr from 3 to 4 (PEP470/502) will, finally, recognize the amount of faculty and student time and effort inherent in teaching, learning and mastering the hands-on skills required of those pursuing a career or advanced education in Exercise Science/Physiology. In terms of long-range planning, the need for lab sections will require coordinated scheduling efforts. At the MSc level, there is a 1 cr hr increase in total credit hours required for graduation which will potentially increase departmental revenue.

MS in Physical Education - Exercise Science

CURRENT PROGRAM OF STUDY (34 CREDIT HOURS)		PROPOSED PROGRAM OF STUDY (35 CREDIT HOURS)	
REQUIRED COURSES (28 Credit Hours)	Cr Hr	REQUIRED COURSES (32 Credit Hours)	Cr Hr
EDPY 603 Applied Statistical Design and Analysis : Note: Currently substituting EDPY 511 for EDPY 603	3	EDPY 603 Applied Statistical Design and Analysis or	3
EDPY 505 Conducting Qualitative Educational Research	3	EDPY 511 Intro Educational Statistics	3
or		EDPY 505 Conducting Quantitative Educational Research	3
PEP 507 Research Design in HPER	3	or	
PEP 500 Exercise Science Seminar	1	PEP 507 Research Design in HPER	3
PEP 501 Intermediate Exercise Physiology	3	PEP 500 Exercise Science Seminar	1
PEP 502 Designs for Fitness	3	PEP 501 Advanced Exercise Physiology	3
PEP 503 EKG Interpretation	3	PEP 502 Designs for Fitness	4
PEP 508 Exercise Testing and Interpretation	3	PEP 503 EKG Interpretation	3
PEP 530 Laboratory Procedures and Instrumentation in App	li⊢ 3	PEP 508 Exercise Testing and Interpretation	3
PEP 532 Body Composition	3	PEP 530 Laboratory Procedures and Instrumentation in Applied P	3
PEP 696 Internship	3	PEP 532 Body Composition	3
		PEP 544 Physiology of Resistance Training	3
		PEP 696 Internship	3
Elective courses (6 cr hr)*	6		
Elective courses from MS Exercise Science (below)		Elective course options (3 cr hr)*	3
or related disciplines (e.g. Nutr, Biol, Biom, Chem, etc.)		Elective courses from MS PE - Exercise Science (below)	
may be substituted for any required courses that were		or related disciplines (e.g. Nutr, Biol, Biom, Chem, etc.)	
taken prior to acceptance into MSc program		may be substituted for any required courses that were taken	
MS EXERCISE SCIENCE ELECTIVES		prior to acceptance into MSc program	
PEP 523 Biomechanics		MS PE - EXERCISE SCIENCE ELECTIVES	
PEP 528 Neuromuscular Performance		PEP 528 Neuromuscular Performance	
PEP 535 Exercise Biochemistry		PEP 527 Metabolic Considerations of Exercise Science	
PEP 579 Sports Physiology		PEP 562 Exercise in Extreme Environments	
PEP 587 Physical Activity and Aging		PEP 579 Sports Physiology	
PEP 625 Writing for Professional Publication		PEP 587 Physical Activity and Aging	
PEP 627 Seminar in Applied Physiology		PEP 593 Selected Topics:	
PEP 593 Selected Topics:			
Exercise Biochemistry Laboratory			
Exercise Endocrinology			
Exercise in Extreme Environments			
Pediatric Exercise Physiology			
* Advisor approval required; POS committee		* Advisor approval required; POS committee approval	

required for course substitutions

approval required for course substitutions

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Curriculum Workflow



Link to Curricula Forms Process Manual	
DEGREE/PROGRAM CHANGE FORM C Form Number: C1571	POF Add
Fields marked with * are required	
Name of Initiator: Susan Copeland Email: susanrc@unm.edu Phone Number: 505 277-0628 Associated Forms exist?* Yes Initiator's Title* Professor: Educational Specialties Faculty Contact* Susan Copeland Administrative Contact* Gloria Carol Department* Educational Specialities Admin Email* gcarol@unm.edu Branch Admin Phone* 277-8950	Date: 11-10-2014
Proposed effective term	
Semester Summer ▼ Year 2016 ▼	
Course Information	
Name of New or Existing Program* GCERT Applied Behavior Analysis: Research Based Intervention Select Category ★ Certificate ▼ Degree Type GCERT Select Action Revision ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change, upload of See current catalog for format within the respective college (upload a doc/pdf file) Current and Proposed Catalog View-2.docx Does this change affect other departmental program/branch campuses? If yes, indicate below Reason(s) for Request* (enter text below or upload a doc/pdf file) We are making two revision requests. The first request is to revise one of the requirements for the transcripted Graduate Certificate in Applied Behavior Analysis: Research Base Behavioral Challenges currently includes a requirement that students take a final comprehensive examples.	urrent and proposed requirements.* ow. Inscripted Graduate Certificate in Applied sed Interventions for Individuals who Have
provide students with practice in preparing for the national Behavior Analyst Certification exam. Unfor a practice exam that is of sufficient quality and that encompasses information in all the areas covered the requirement for the comprehensive practice exam be deleted from the certificate requirements. The numbers for three classes within the program. This first class for which we are requesting a unique concept professionalism in Applied Behavior Analysis (has been taught as a topics class and we are now requesting addition is required because of changes by the Behavior Analyst Certification Board to certificate transcripted graduate certificate in ABA, the Behavior Analyst Certification Board changed the required Behavior Analyst (BCBA) such that individuals seeking this certification must now take a 3 he class we are requesting a unique course number for is SPCD 594 Advanced Field Experience in Applusing Dr. Megan Griffin's fieldwork class number, and we are now requesting a permanent number/tit additions are attached. The third class for which we are requesting a unique course number is SPCD Applied Behavior Analysis-Lab. This course has also been taught using Dr. Megan Griffin's fieldwork permanent number/title for the course. Adding these classes will not change faculty workloads becautaught by Dr. Megan Griffin as a part of her normal course load.	in the BCBA exam. We are requesting that he second request is to add unique course ourse number is SPCD 597 Ethics and uesting a permanent number/title for it). On requirements. Since we created the ements for receiving certification as a Boar our graduate course in ethics. The second blied Behavior Analysis (It has been taugh le for it.). The Form Bs for these two 594L Advanced Field Experience in class number. We are now requesting a
597_syllabus.docx 594L_syllabus.docx 594_syllabus.docx	
Upload a document that inlcudes justification for the program, impact on long-range planning, de workload implications.* (upload a doc/pdf file)	tailed budget analysis and faculty
Impact on Other Departments.docx	
☐ Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, up	load the following documents.

Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)

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Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)

Approve and Sign Off

Send back to Initiator (Susan Copeland) Comment on this Form

Committee Review



Office of the Registrar MSC06 3650 1 University of New Mexico Albuquerque, NM 87131-0001

Impact of Proposed Changes to GCERT Applied Behavior Analysis: Research Based Interventions for Individuals who Have Behavioral Challenges

Impact on Other Departments

We checked the catalog for course offerings in Psychology and also with the Chair of that department. There were no courses offered in either fieldwork in applied behavior analysis or ethics in applied behavior analysis.

Impact on Long-Range Planning, Faculty Workload, and Budget

The proposed changes to the certificate program have no effect on long-range planning. The two courses (see Form Bs) are ones that have already been taught under a generic number, and we are only requesting that these courses be assigned a formal course number.

There will be no change in faculty workload related to the proposed changes. These courses are already part of Dr Megan Griffin's faculty workload. We are simply asking that the courses be assigned a formal course number/title.

Finally, there are no budget considerations as a result of the proposed changes. The courses are already a part of Dr. Griffin's workload so will not create a change in budget. Also, removing the requirement that students complete a practice exam has no budgetary impact.

Current and Proposed Catalog View GCERT Applied Behavior Analysis

Current View

Graduate Certificate in Applied Behavior Analysis Research-based Interventions for Individuals with Disabilities who have Behavioral Challenges

The Graduate Certificate in Applied Behavior Analysis (ABA): Research-based Interventions for Individuals with Disabilities who have Behavioral Challenges is designed to prepare in-service special and general education teachers and related professionals as well as community providers (e.g., behavior therapists, developmental specialists, early interventionists) to conduct behavioral assessment with children and adults in need of behavior intervention services, provide behavior analytic interpretation of the results, and design and implement appropriate behavior interventions based on assessment results that will be implemented in home, school, and community settings.

The Graduate Certificate program is open to students pursuing a graduate degree in Special Education and in other related fields (e.g., Psychology) at the University of New Mexico and to individuals who minimally hold a bachelor's degree and are interested in advanced training in behavioral analysis and intervention.

The certificate offers two options, each developed prospectively with the designated faculty certificate advisor:

- Option I: Students successfully complete a minimum of 12 credit hours of
 coursework and an approved final capstone project or (2) Students
 successfully complete the requirements of (1) and also successfully complete
 an additional 6 credit hours of advanced field experience to fulfill the field
 experience requirements for credentialing as a Board Certified Behavior
 Analyst (BCBA).
- **Option II:** Completion of this program prepares a student to sit for the national credentialing exam for BCBAs.

	Prerequisites for Options 1 and 2	
SPCD	Special Education Law	3
510		
SPCD	Applied Behavioral Analysis in the Classroom	3
519		
SPCD	Teaching Students with Intensive Communication Needs	3
582		
	Required Course Work for Option I	12
SPCD	Seminar in Special Education: Advanced Applied Behavior	3
505	Analysis	
SPCD	Advanced Field Experience	3
594		
SPCD	The Application of ABA to Academic Research in Special	3
619	Education	
Elective	approved by faculty certificate advisor	3
	Required Course Work for Option II	18
SPCD	Seminar in Special Education: Advanced Applied Behavior	3
505	Analysis	
SPCD	Advanced Field Experience	9
594L		
SPCD	The Application of ABA to Academic Research in Special	3
619	Education	
Elective	approved by faculty certificate advisor	3

Proposed View (changed items are bolded)

Graduate Certificate in Applied Behavior Analysis

Research-based Interventions for Individuals with Disabilities who have Behavioral Challenges

The Graduate Certificate in Applied Behavior Analysis (ABA): Research-based Interventions for Individuals with Disabilities who have Behavioral Challenges is

designed to prepare in-service special and general education teachers and related professionals as well as community providers (e.g., behavior therapists, developmental specialists, early interventionists) to conduct behavioral assessment with children and adults in need of behavior intervention services, provide behavior analytic interpretation of the results, and design and implement appropriate behavior interventions based on assessment results that will be implemented in home, school, and community settings.

The Graduate Certificate program is open to students pursuing a graduate degree in Special Education and in other related fields (e.g., Psychology) at the University of New Mexico and to individuals who minimally hold a bachelor's degree and are interested in advanced training in behavioral analysis and intervention.

The certificate offers two options, each developed **and documented** prospectively with the designated faculty certificate advisor:

- Option I: Students successfully complete a minimum of 12 credit hours of
 coursework and an approved final capstone project. Completion of Option I
 results in a transcripted graduate certificate but does not result in eligibility to
 sit for the national credentialing exam as a Board Certified Behavior Analysts
 (BABC).
- Option II: Students successfully complete the requirements of Option I and also successfully complete an additional 6 credit hours of advanced field experience to fulfill the field experience requirements for credentialing as a Board Certified Behavior Analyst (BCBA). Only completion of Option
 II prepares a student to sit for the national credentialing exam for BCBAs.

	Prerequisites for Options 1 and 2		
SPCD	Special Education Law	3	
510			
SPCD	Applied Behavioral Analysis in the Classroom		
519			
SPCD	Teaching Students with Intensive Communication Needs	3	
582			

	Required Course Work for Option I	12
SPCD	Seminar in Special Education: Advanced Applied Behavior	3
505	Analysis	
	<u> </u>	1
SPCD	Advanced Field Experience in Applied Behavior Analysis	3
594		
SPCD	The Application of ABA to Academic Research in Special	3
619	Education	
SPCD	Ethics and Professionalism in Applied Behavior Analysis	3
597		
	Required Course Work for Option II	18
SPCD	Seminar in Special Education: Advanced Applied Behavior	3
505	Analysis	
SPCD	Advanced Field Experience in Applied Behavior Analysis	3
594		
SPCD	Advanced Field Experience in Applied Behavior Analysis	6
594L		
SPCD	The Application of ABA to Academic Research in Special	3
619	Education	
SPCD	Ethics and Professionalism in Applied Behavior Analysis	3
597		

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DEGREE/PROGRA	·
Form Numl	
Fields marked with * are required	
Name of Initiator: Jami Lynn Huntsinger Email: jamilynn@unm.edu Associated Forms exist?* No Faculty Contact* Jami L. Huntsing	Phone Number: 505 925-8623 Date: 02-17-2015 Initiator's Title* Assistant Professor: Valencia County Branch er Administrative Contact* Jami L. Huntsinger
Department* Communication, Humanitites, English, and Social Science	
Branch Valence	ia Admin Phone* 505-925-8622
Proposed effective term Semester Fall ▼ Year 2016 ▼	
Course In	formation
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* Associate of Arts in Criminology Select Category * Major ▼ Degree Type AA Select Action Revision ▼	
Exact Title and Requirements as they should appear in the catalog. If See current catalog for format within the respective college (upload a do	there is a change, upload current and proposed requirements.* c/pdf file)
CRIMINOLOGY Update 2016.docx	
Does this change affect other departmental program/branch cam	puses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) To articulate AA in Criminology degree at UNM Valencia with the BA in	Criminology at Main Campus
Upload a document that inlcudes justification for the program, impact workload implications.* (upload a doc/pdf file)	on long-range planning, detailed budget analysis and faculty
Justification.docx	
Are you proposing a new undergraduate degree or new undergra	duate certificate? If yes, upload the following documents.
Upload a two-page Executive Summary authorized by Associate Pro-	vost.* (upload a doc/pdf file)
Upload memo from Associate Provost authorizing go-ahead to full pr	oposal.* (upload a doc/pdf file)
Approve and Sign Off Send back to Initiator Comment o	(Jami Lynn Huntsinger) Committee Review n this Form
Office of the Registrar MSC06 3650 1 University of New Mexico Albuquerq	ue, NM 87131-0001

A. **Justification for the Change in the Program**: Importantly, UNM Valencia is articulating requirements in the Associate of Arts in Criminology with Main Campus requirements in the BA in Criminology. Many of our students major in this degree program. They either use it as a terminal Associate degree program or a transfer degree program in Criminology at UNM Main Campus

В.

- C. **Impact on Long-range Planning**: The long range plan in the Division of CHESS is to continue to update programs to articulate requirements with UNM Main Campus requirements, a student-centered approach to education which encourages retention and completion of the degree program
- D. **Detailed Budget Analysis**: Since we already offer this degree program and all courses added, there are no new expenses.
- E. **Faculty Workload Implications**: There is no impact on faculty as all courses Criminology are already being taught. We use UNM Main Campus learning outcomes and course descriptions already, so no new curriculum development is need.

Associate of Arts in Criminology Program Description

The Sociology Department at the University of New Mexico offers a specialized program in Criminology, designed to give students a comprehensive introduction to the field. Courses focus on the characteristics, nature, causes, and consequences of crime and giving particular attention to the criminal justice system. Basic instruction includes completing core requirements and courses in sociological theory.

Career and Educational Advancement Opportunities

The Associate of Arts in Criminology is a transfer program designed to prepare students for completing a BA in Criminology. Employment opportunities include careers in criminology, including law enforcement, corrections, crime prevention, law, social work, or counseling. Students must earn a grade of "C" or better in all pre-admission course work; a grade-point average of 2.25 is required for regular admittance to a criminology major.

Program Requirements

Total credit hours required: 61 (see checklist for specific requirements). Please refer to The University of New Mexico Core Curriculum for a list of allowable core curriculum elective courses.

Program Learning Goals

This program provides students with quality instruction to facilitate mastery of the knowledge, skills, and behaviors necessary to continue their studies in a Bachelor's degree in Criminology. Course syllabi describe the learning objectives that contribute to the program learning goals and explain how students' learning is evaluated. Upon successful completion of the required courses for the associate arts in criminology, our students will be able to:

- 1. Demonstrate a knowledge of effective communication in writing, speaking, and/or language.
- Demonstrate an ability to apply concepts in history, political science, sociology, psychology, and/or anthropology.
- 3. Demonstrate an ability to apply concepts in fine arts, religion, philosophy, and or literature.
- 4. Complete the first two years of a Bachelor of Arts Criminology.

Learning Objectives

- 1. Demonstrate knowledge of effective communication in writing, speaking, philosophy, and/or language.
- 2. Demonstrate ability to apply concepts in history, economics, political science, sociology, psychology, and/or anthropology.
- 3. Demonstrate ability in mathematics and physical/natural sciences.
- 4. Complete the first two years of a BA in Criminology.

Contact and Advising Information

Information about the Associate of arts in Criminology Degree Program is available from Advisement Center at 505.925.8560 or vcadvise@unm.edu, or the Communication, Humanities, English & Social Sciences Chair, Dr. Danizete Martinez, at 505.925.8728 or danizete@unm.edu.

Course Prerequisites

Students must meet prerequisites by achievement of minimum placement scores on the COMPASS or ACT or through completion of course work.

Course: ENGL 100 & UNIV 101, ENGL 111/ENGL 112 or place into ENGL 110 or ENGL 113;

Credit hours: 4&3; 3&3; COMPASS/ACT Minimum Scores: 75/19

Course: MATH 101/102 or MATH 120 - or place into MATH 121; Credit hours: 3 & 1; COMPASS/ACT

Minimum Scores: 55/22

Associate of Arts in Criminology Degree Requirements

Area Semester Grade Credits

minor that best fits their major.

The following are the course requirements for completion of an Associate of Arts in Criminology degree. Students should see an advisor to customize their educational plans.

Writing and Speaking: (9-10 cred	its)
ENGL 110 or 112 or 113	
ENGL 120	3
ENGL 120	3
Select an additional course from CJ 130	o, PHIL 156, ENGL 219, or ENGL 220.
Math: (3 credits)	
STAT 145	3
Physical and Natural Sciences: (7-	
	4
	3 or 4
Select two courses from the UNM Core	Curriculum, one of which must include a lab.
Social and Behavioral Sciences: (6	6 credits)
	_ 3
	_ 3
Select two courses from the UNM Core requirements) such as ANTH, ECON, P	Curriculum in Social and Behavioral Sciences (except those required in Criminology
Humanities: (6 credits)	
	3
	3
Select two courses from the UNM Core	Curriculum in Humanities.
Fine Arts: (3 credits)	
	3
Select one course from the UNM Core C	Curriculum in Fine Arts.
Foreign Language: (3 credits)	
Select one course from the UNM Core (Curriculum in Foreign Language. Suggested: SPAN 101 OR 102
Criminology Core Requirements:	(12 credits)
SOC 101	3
SOC 205	3
SOC 213	 3
SOC 101 SOC 205 SOC 213 SOC 211 OR SOC 216	3
Elective Requirements (12 credits	
· ·	of New Mexico, students should choose a Minor. Therefore, 8 of the 12

Total Required: (61 credits) Students transferring to four-year institutions other than the University of New Mexico should be aware that core curriculum requirements may not necessarily met upon the completion of this degree.

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DEGREE/PROGRAM CHANGE FORM C Form Number: C1604	POF
Initiator's Title* Associate Professor: Educationa Administrative Co Admin Email	·
Course Information	
ee Program ▼ truction for Students with Intensive Social, Langua e Type GR	age, and Behavioral Needs
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al program/branch campuses? If yes, indicate b	pelow.
load a doc/pdf file) certificate are to (a) reflect more explicitly the con and Statistical Manual of Mental Disorders (DSM- ate program will be able to demonstrate their expe	-5), which was released in May 2013. In
certificate are to.docx	
or the program, impact on long-range planning,	detailed budget analysis and faculty
egree or new undergraduate certificate? If yes,	upload the following documents.
rized by Associate Provost.* (upload a doc/pdf fi	le)
zing go-ahead to full proposal.* (upload a doc/pd	If file)
Send back to Initiator (Huaqing Qi) Comment on this Form	Committee Review
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1604 n.edu Phone Number: 505 277-4452 Date Initiator's Title* Associate Professor: Educational Administrative Conformation Course Information Program Truction for Students with Intensive Social, Language e Type GR ppear in the catalog. If there is a change, uploate college (upload a doc/pdf file) In program/branch campuses? If yes, indicate the load a doc/pdf file) certificate are to (a) reflect more explicitly the conformation of Mental Disorders (DSM ate program will be able to demonstrate their expenditude are to.docx or the program, impact on long-range planning, agree or new undergraduate certificate? If yes, ized by Associate Provost.* (upload a doc/pdf file) Send back to Initiator (Huaqing Qi)

CURRICULUM FORM CHECKLIST FORM C # 1604

Complete this form and submit with curricular forms A, B, C, D

Program Level

- Individual faculty member initiates form
- program faculty (including affiliated faculty in other Form provided to all departments)
- review form and syllabus Minimum one week for program faculty to
- Program faculty vote on form at meeting or electronically
- | If approved, documentation of program vote and form sent to Department Chair

Program Coordinator Initials

Note: If not approved, send form back to initiating faculty member with comments for revision

Department Level

- Chair reviews for accuracy and completeness
- departmental faculty for minimum of one week ✓ Form provided to all
- ☑ Department votes on forms at meeting or electronically
- If approved, documentation of department vote and form sent to Department Chair

departmental approval to the indicating faculty vote and Scheduling Coordinator Chair sends an e-mail

Department Chair Initials KL Date 5/13/15

Note: If not approved, send form back to initiating faculty member with comments for revision

Which form should I use? (Manual is attached)

Form A

name or course number) graduate courses (e.g. undergraduate and Minor change in existing, active

Form B

New course request for undergraduate and graduate courses

Form C

revisions to graduate and degrees, majors, minors, undergraduate courses, transcripted certificates Substantial changes or concentrations, emphases, and

Form D

New graduate degrees and new transcripted graduate certificates

Current (As Published)

Proposed (As Changed)

Graduate Certificate in Instruction for Students with Intensive Social, Language, and Behavioral Needs

The Graduate Certificate in Instruction for Students with Intensive Social, Language, and Behavioral Needs is designed for in-service general education and special education teachers, related service professionals (e.g., speech/language pathologist), and parents wishing to acquire advanced instructional skills and knowledge in the area of communication, social, and behavioral interventions for students with significant support needs. The Graduate Certificate program is open to students pursing a graduate degree in Special Education and in other related fields (e.g., Speech Language Pathology, Family Studies, Early Childhood Education) at the University of New Mexico, and to individuals who minimally hold a bachelor's degree and are interested in having specialized training in working with students with social, language, and behavioral needs (e.g., students with autism spectrum disorders [ASD]). To obtain the certificate, students must successfully complete a minimum of 18 credit hours and an approved final capstone project.

	Required Course Work	18
SPCD 519	Applied Behavioral Analysis in the Classroom	3
SPCD 552	Teaching Students with Intellectual Disability and Severe Disabilities	3
SPCD 582	Teaching Students with Intensive Communication Needs	3
SPCD 583	Introduction to Autism Spectrum Disorders	3
SPCD 584	Research and Teaching/Intervention in Autism Spectrum Disorders	3
SPCD 595	Advanced Field Experience	3

Graduate Certificate in Autism Spectrum Disorder

The Graduate Certificate in Autism Spectrum Disorder is designed for in-service general education and special education teachers, related service professionals (e.g., speech/language pathologist), and parents wishing to acquire advanced instructional skills and knowledge in the area of communication, social, and behavioral interventions for students with significant support needs. The Graduate Certificate program is open to students pursing a graduate degree in Special Education and in other related fields (e.g., Speech Language Pathology, Family Studies, Early Childhood Education) at the University of New Mexico, and to individuals who minimally hold a bachelor's degree and are interested in having specialized training in working with students with social, language, and behavioral needs (e.g., students with autism spectrum disorders [ASD]). To obtain the certificate, students must successfully complete a minimum of 18 credit hours and an approved final capstone project.

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SPCD 583	Introduction to Autism Spectrum Disorders	3
SPCD 584	Research and Teaching/Intervention in Autism Spectrum Disorders	3
SPCD 595	Advanced Field Experience	3

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	DEGREE/PROGRA FORM C Form Num		POF
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Associated Forms exist?* No Faculty Contact* Christina Department* H	▼ Initiator's Title* Associ	Phone Number: 505 277-5151 ate Professor: Health Exercise & Administrative Contact* Admin Email* tseidl Admin Phone* 5	Todd Seidler er@unm.edu
Proposed effective term Semester Spring ▼ Year 201			
	Course In	formation	
Select Appropriate Program* Undergrad Name of New or Existing Program* Comm Select Category * Minor Select Action New		r (NEW)	
Exact Title and Requirements as they sho See current catalog for format within the res			rent and proposed requirements.*
revproposed catalog CHED Minor.docx			
Reason(s) for Request* (enter text below The proposed 18-credit hour community harea of community health education and to majoring in psychology, exercise science, rebelieves that offering a minor will provide a expertise not obtained elsewhere at UNM. Integrative Studies degree programs.	or upload a doc/pdf file) ealth education minor provid complement a related major nursing and nutrition, have in n area of study that not only o	es opportunities for students of a area of study. Over the past five quired about a minor in commur complements an array of majors	any major to gain expertise in a conter y years, students from across campus, nity health education. The faculty across campus, but provides a field of
Upload a document that inlcudes justifica workload implications.* (upload a doc/pdf Justification and budget .docx checklist HED minor.pdf		t on long-range planning, detai	iled budget analysis and faculty
☐ Are you proposing a new undergradu	ate degree or new undergra	iduate certificate? If yes, uploa	ad the following documents.
Upload a two-page Executive Summary a	uthorized by Associate Pro	vost.* (upload a doc/pdf file)	
Upload memo from Associate Provost au	nthorizing go-ahead to full pr	oposal.* (upload a doc/pdffile)	
Approve and Sign Off		(Christina Marie Perry) n this Form	Committee Review
Office of the Registrar MSC06 3650 1	University of New Mexico Albuquero	ue, NM 87131-0001	

Proposed Catalog

Community Health Education Minor

Catalog description

An 18-credit hour non-teaching undergraduate minor in Community Health Education is offered to students majoring in all disciplines except Health Education. Students pursuing this minor should plan to enroll in the required courses during the fall and spring semesters since undergraduate courses in health education are seldom offered during the summer sessions. Students should contact an advisor at the Center for Student Success in Travelstead Hall for more information.

Community Health Education Minor - 18 credit hours required

A. Core Requirements – 9 credit hours

HED 260-3cr Foundations of Health Promotion HED 362-3cr Introduction to Health Behavior

HED 451-3cr Prevention Strategies in Community Health

B. Elective Courses (select) – 9 credit hours

Students are encouraged to select courses that complement their major field of study and that support their individual interests and career goals. At least 3 hours of the elective courses must be 300 level or above.

-One credit hour course list

HED 209 Education for HIV/Aids Prevention

HED 247 Consumer Health

HED 306 Conflict Mediation

HED 310 Injury Prevention

HED 321 Violence Prevention

HED 445 Strategies for Prevention of Substance Abuse

-Three credit hour course list

HED 171 Personal Health Management

HED 212 Fundamentals of Human Sexuality

HED 333 Emotional Health and Interpersonal Relationships

HED 371 Introduction to Public and Community Health

HED 383 Principles of Epidemiology

HED 473 Health Issues of Death & Dying

HED 487/587 Physical Activity and Aging

HED 477/577 Stress Management

HED 482 Social Determinants and Multicultural Health

The Community Health Education minor will complement majors of study in, but not limited to, nutrition, exercise science, and other health related fields.

Justification, budget implications and faculty workloads

The proposed 18-credit hour community health education minor provides opportunities for students of any major to gain expertise in a content area of community health education and to complement a related major area of study. Over the past five years, students from across campus, majoring in psychology, exercise science, nursing and nutrition, have inquired about a minor in community health education. The faculty believes that offering a minor will provide an area of study that not only complements an array of majors across campus, but provides a field of expertise not obtained elsewhere at UNM. In addition, this minor may also serve as a focus area for students enrolled in the Liberal Arts and Integrative Studies degree programs.

The proposed 18-credit hour minor does not duplicate any existing program minor at UNM and *utilizes standing courses in the current health education curriculum*. By instituting this minor there will be no budgetary or curricular changes required. The required courses in the community health education minor are currently taught by four core HED faculty (3 tenured), one full-time lecturer III instructor, three part-time instructors and 2 teaching assistants.

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	DEGREE/PROGRAM CHANGE FORM C Form Number: C1644	POF
Fields marked with * are required		
Name of Initiator: Tina Armijo Email: tmarmijo(Associated Forms exist?* No ▼ I Faculty Contact* Leslie Oakes Department* Anderson School of Management Branch Main	@unm.edu Phone Number: 505 277-1890 Initiator's Title* Unit Administrator: ASM Dept of Administrative Contact* Admin Email* tmarmijo Admin Phone	Tina Armijo @unm.edu
Proposed effective term Semester Fall ▼ Year 2016 ▼		
	Course Information	
Select Appropriate Program* Graduate Degree Name of New or Existing Program* Master of Ac Select Category ★ Concentration ▼ Degree Select Action Revision ▼ Exact Title and Requirements as they should ap	counting- Professional Accounting Concentrations Type	
See current catalog for format within the respectiv		a current and proposed requirements.
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Does this change affect other departmenta	I program/branch campuses? If yes, indicate I	pelow.
Reason(s) for Request* (enter text below or upl Students are currently only able to take the two in another institution with approval from the MACCT articulation agreement for course selection. This padmitted to a program as non-degree and so are	ntroductory courses (pre-requisites) as a non-de advisor. If they take them at another institution ir outs a burden on international students and stud	n New Mexico they may follow the New Mexic ents on financial aid because they are not
Upload a document that inlcudes justification for workload implications.* (upload a doc/pdf file)	or the program, impact on long-range planning,	detailed budget analysis and faculty
20150604110315324.pdf		
Are you proposing a new undergraduate de	gree or new undergraduate certificate? If yes,	upload the following documents.
Upload a two-page Executive Summary authori	zed by Associate Provost.* (upload a doc/pdff	ile)
Upload memo from Associate Provost authoriz	ing go-ahead to full proposal.* (upload a doc/po	df file)
Approve and Sign Off	Send back to Initiator (Tina Armijo) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Univers	sity of New Mexico Albuquerque, NM 87131-0001	

Old Catalog Description

The **Professional Concentration** is designed for individuals who have a non-accounting undergraduate degree and wish to enter public accounting as a certified professional. The Professional Concentration requires two prerequisites consisting of an introductory financial accounting course, and an introductory managerial accounting course prior to admission in the program and consists of 27 credit hours of specified graduate accounting coursework, plus 6 credit hours of specified graduate non-accounting coursework.

Course requirements: Students may complete the two prerequisites by taking MGMT 502 and MGMT 503. Students should visit with the accounting faculty advisor about other coursework that will satisfy the prerequisite requirements. Students must complete the following courses: MGMT 540, 541, 542, 543, 544, 546, 549, 550, 559, 640 or 643¹, and 626²

¹Students must complete either MGMT 640 or 643.

²Students must visit with the accounting faculty advisor and request written approval for alternate graduate coursework that will satisfy the MGMT 626 requirement. Students who have completed MGMT 326 at Anderson at the undergraduate level should not take MGMT 626 and must visit with the accounting faculty advisor about which graduate course to take instead of MGMT 626.

Proposed Catalog Description

The **Professional Concentration** is designed for individuals who have a non-accounting undergraduate degree and wish to enter public accounting as a certified professional. The Professional Concentration requires the successful completion of two introductory courses consisting of a preliminary financial accounting course and a preliminary managerial accounting course taken prior to or after admission to the program and consists of 27 credit hours of specified graduate accounting coursework, plus 6 credit hours of specified graduate non-accounting coursework.

Course requirements: Students may complete the two introductory courses by taking MGMT 502 and MGMT 503 at the Anderson School. Students not completing the introductory courses at Anderson should consult with the accounting faculty advisor about other course work that will fulfill the introductory course requirements prior to taking any courses. Students must complete the following courses: MGMT 540, 541, 542, 543, 544, 546, 549, 550 or 554¹, 559, 640 or 643², and 626³.

¹Students must complete either MGMT 550 or 554.

²Students must complete either MGMT 640 or 643.

³Students must visit with the accounting faculty advisor and request written approval for alternate graduate coursework that may satisfy the MGMT 626 requirement. Students who have completed MGMT 326 at Anderson at the undergraduate level should not take MGMT 626 and must visit with the accounting faculty advisor about which graduate course to take instead of MGMT 626.

Form C1644 Master of Accounting Professional Concentration

The GMAT/GRE is waived for students who have a BBA from an AACSB accredited school with a minimum of 3.25 GPA in all upper division coursework. Students granted the waiver must also attend the Anderson School Writing workshop. Students must fulfill all other admission requirements.]

The GMAT/GRE is waived for students who have a B.B.A. from an AACSB-accredited school with a minimum of 3.25 GPA in all upper-division coursework. Students granted the waiver must also attend the Anderson School Writing workshop. Students must fulfill all other admission requirements.

FORM C Degree/Program Change

Anderson School of Management internal approval form

Name of Initiator: Tina Armijo

Email: tmarmijo@unm.edu

Date: 11/13/2014

Phone: 277-1890

Initiator's Rank/Title: Unit Administrator

Associated Forms Exist: Yes

Faculty Contact: Leslie Oakes

Administrative Contact: Tina Armijo

Department: Department of Accounting

Admin Email: tmarmijo@unm.edu Admin Phone: 277-1890

Branch: Main

Proposed effective term

Semester: Fall

Year: 2015

Course Information

Circle Program: UG

GR

Name of new or existing program: Master of Accounting, Professional Concentration

Select Category:

Degree

Minor

Concentration

Certificate

Emphasis

Major

Department

Subject code

UG Core Course

Degree type: Masters

Select Action:

New

Revision

Deletion

Name Change

Exact Title and Requirements as they should appear in the catalog:

This concentration is designed for individuals who have a non-accounting undergraduate degree and wish to enter public accounting as a certified professional. The Professional Concentration requires the successful completion of two introductory courses consisting of an introductory financial accounting course and an introductory managerial accounting course with a B or better and 27 credit hours of specified graduate accounting coursework, plus 6 credit hours of specified graduate non-accounting coursework.

Course requirements: Students may complete the two introductory courses by taking MGMT 502 and MGMT 503. Students not completing the introductory courses at Anderson should consult with the accounting faculty advisor about other course work that will fulfill the introductory course requirements prior to taking any courses. The six hours of introductory course work are in addition to 33 hours of

Updated 7/2014, DFM

course work required to complete the program. Students must complete the following courses: MGMT 540, 541, 542, 543, 544, 546, 549, 550, 559, 640 or 643 (1), and 626 (2).

(1) Students must complete either 544 or 550 (2) Students must complete either MGMT 640 or 643.

(3) Students must visit with the accounting faculty advisor and request written approval for alternate graduate coursework that may satisfy the MGMT 626 requirement. Students who have completed MGMT 326 at Anderson at the undergraduate level should not take MGMT 626 and must visit with the accounting faculty advisor about which graduate course to take instead of MGMT 626.

The GMAT/GRE is waived for students who have a B.B.A. from an AACSB-accredited school with a minimum of 3.25 GPA in all upper-division coursework. Students granted the waiver must also attend the Anderson School Writing workshop. Students must fulfill all other admission requirements.

Does this change affect other departmental program/branch campuses? Yes _____ No X Reason(s) for request:

Students are currently only able to take the two introductory courses (pre-requisites) as a non-degree student. Or they may take them at another institution with approval from the MACCT advisor. If they take them at another institution in New Mexico they may follow the New Mexico articulation agreement for course selection. This puts a burden on international students and students on financial aid because they are not admitted to a program as non-degree and so are not taking them at UNM or not entering the program. This change alleviates that problem.

There will not be additional faculty workloads as the courses are already being offered with room for additional students if needed.

Statements that include justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications:

Approved Dept. Chair

Date

11-6-14

Approved Curriculum Comm Chair

Date

Approved Associate Dean

Date

bmitted by

Date

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Office of the Registrar

Curriculum Workflow

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Name of Initiator: Ann Gibson Email: alg@unm.edu Phone Num Associated Forms exist?* Yes ▼ Initiator's Title* Asso	ber: 505 277-8173 Date: 07-21-2015 pociate Professor: Health Exercise & Sports Scie
Faculty Contact* Ann Gibson	Administrative Contact* Todd Seidler
Department* HESS	Admin Email* tseidler@unm.edu
Branch Main	Admin Phone* 277-2783
Proposed effective term Semester Fall ▼ Year 2016 ▼	
Course	Information
Select Appropriate Program* Graduate Degree Program Name of New or Existing Program* PhD in PESES - Exercise Science Select Category * Concentration ▼ Degree Type PhD Select Action Revision ▼	;e
Exact Title and Requirements as they should appear in the catalog See current catalog for format within the respective college (upload a	
Current and proposed POS - PhD in PESES.pdf	
Does this change offerst other denoutmental program/brench o	annua a 2 Musa indicata balau

Reason(s) for Request* (enter text below or upload a doc/pdf file)

The reasons for this requested curricular change are several: 1. Reduce number of credit hrs from 73 + Dissertation to 72 + Dissertation 2. Switch some of the formerly required and elective courses to increase likelihood of courses making 3. Rename PEP 501 from Intermediate Exercise Physiology to Advanced Exercise Physiology; this will become a graduate only course as it will be dropped from UG curriculum 4. Sunset PEP 536 Biochemistry Lab 5. Replace PEP 536 with new course PEP 628 Cellular & Molecular Mechanisms as much of the research in our field is going molecular 6. Add new course PEP 544 Physiology of Resistance Training to curriculum given new programmatic capabilities to support pursuit of strength and conditioning careers 7. Identify appropriate supporting area classes (24 cr hrs total) and denote that no more than 12 credit hours from Exercise Science electives will count toward the 72 credit hour total 8. Note proposed change to PEP Designs for Fitness to a 4 cr class from a 3 cr class given the enormous amount of theoretical and practical skill now required for fitness industry careers and certifications In a nutshell, our Ex Sci grad curriculum has not changed in at least the past 14 years, but the field has changed substantially. We believe our proposed curricular modifications reflect these changes and student feedback gathered over the past 4 years. Many of our Exercise Science undergrads apply for the Generalized MSc in Physical Education. Until the proposed changes are made, there are few, if any, Exercise Science related 500-level courses they can take as they already took the cross-listed undergraduate course. Additionally, we are limited by lab space and the need to comply with Fire Marshall caps; given the fact that Designs is a cross-listed course (PEP 470/502) and required by Exercise Science and Athletic Training, enrollment can easily surpass the Fire Code cap. Therefore, we need to officially create lab sections in order to accommodate everyone and make the practical skill development meaningful.

Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)

Justification of Ex Sci changes.pdf

Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.

Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)

Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)

Approve and Sign Off

Send back to Initiator (Ann Gibson)

Committee Review

3/11/2016 AutoCurric Form C

Comment on this Form



Office of the Registrar MSC06 3650 1 University of New Mexico Albuquerque, NM 87131-0001

Proposed changes to Ex Sci PhD Curriculum as approved in HESS Faculty meeting August 2013

- 1. Reduce number of credit hrs from 73 + Dissertation to 72 + Dissertation
- 2. Switch some of the formerly required and elective courses to increase likelihood of courses "making"
- 3. Rename PE-P 501 from "Intermediate Exercise Physiology" to "Advanced Exercise Physiology"; this will become a graduate only course as it will be dropped from UG curriculum
- 4. Sunset PE-P 536 Biochemistry Lab
- 5. Replace PE-P 536 with new course PE-P 628 Cellular & Molecular Mechanisms as much of the research in our field is "going molecular"
- 6. Add new course PE-P 544 Physiology of Resistance Training to curriculum given new programmatic capabilities to support pursuit of strength and conditioning careers
- 7. Identify appropriate supporting area classes (24 cr hrs total) and denote that no more than 12 credit hours from Exercise Science electives will count toward the 72 credit hour total
- 8. Note proposed change to PE-P Designs for Fitness to a 4 cr class from a 3 cr class given the enormous amount of theoretical and practical skill now required for fitness industry careers and certifications

In a nutshell, our Ex Sci grad curriculum has not changed in at least the past 14 years, but the field has changed substantially. We believe our proposed curricular modifications reflect these changes and student feedback gathered over the past 4 years.

Many of our Exercise Science undergrads apply for the Generalized MSc in Physical Education. Until the proposed changes are made, there are few, if any, Exercise Science related 500-level courses they can take as they already took the cross-listed undergraduate course.

Additionally, we are limited by lab space and the need to comply with Fire Marshall caps; given the fact that Designs is a cross-listed course (PE-P 470/502) and required by Exercise Science and Athletic Training, enrollment can easily surpass the Fire Code cap. Therefore, we need to officially create lab sections in order to accommodate everyone and make the practical skill development meaningful.

PhD in PESES: Concentration in Exercise Science; POS Worksheet

Current (73 cr hr + Dissertation)		Proposed Minimum of 72 credits + Dissertation	
Required Core Courses (13 Cr Hrs)	cr hrs	Required Core Courses (12 Cr Hrs)	cr hrs
PE-P 500 Exercise Science Seminar	1	EDPY 630 College Teaching Seminar	3
PE-P 505 Found for a Professional Philosophy	3	PE-P 541 Ethics Sports & Fitness	3
OR		PE-P 507 Research Design in HPER	3
PEP 541 Ethics Sports & Fitness		OR	
PEP 507 Research Design in HPER OR		EDPY 505 Conducting Quantitative Educational Rese	
EDPY 505 Conducting Quantitative Educational Rese	e 3	PEP 604 Dissertation Seminar	3
PEP 604 Dissertation Seminar	3		
PEP 625 Writing for Professional Publication	3	Exercise Science Courses (36 Cr Hrs)	
C		PEP 501Advanced Exercise Physiology	3
		PEP 508 Exercise Testing and Interpretation	3
Exercise Science Courses (36 Cr Hrs)	3	PEP 527 Metabolic Considerations of Exercise Science	3
PEP 501 Intermediate Exercise Physiology	3	PEP 528 Neuromuscular Performance	3
PEP 502 Designs for Fitness	3	PEP 530 Laboratory Procedures and Instrumentation is	3
PEP 503 EKG Interpretation	3	PEP 532 Body Composition	3
PEP 508 Exercise Testing and Interpretation	3	PEP 544 Physiology of Resistance Training	3
PEP 530 Laboratory Procedures and Instrumentation	i 3	PEP 562 Exercise in Extreme Environments	3
PEP 535 Exercise Biochemistry	3	PEP 625 Writing for Professional Publication	3
PEP 627 Seminar in Applied Physiology	3	PEP 627 Seminar in Applied Physiology	3
PEP 691 Problems	3	PEP 628 Cellular & Molecular Mechanisms	3
PEP 696 Internship	6	Exercise Science elective **	3
Exercise Science elective **	3		
Exercise Science elective **	3	Supporting Areas (24 Cr Hrs)**	
		Approved Exercise Science Electives	
		Note: maximum 12 PE-P cr hrs will be applied	
Biomedical/Technologies (13 Cr Hrs)		PEP 502 Designs for Fitness	4
BIOMED 510 Physiology (required)	3	PEP 503 EKG Interpretation	3
OLIT Elective **	3	PEP 579 Sports Physiology	3
Elective **	3	PEP 691 Problems	3
Elective **	3	PEP 696 Internship	3-6
Research/Statistics (12 Cr Hrs)		Research/Statistics (* = required course)	
Elective in Research/Statistics **		EDPY 511 Intro Educational Statistics	3
EDPY 603 Applied Statistical Design and Analysis*	3	EDPY 603 Applied Statistical Design and Analysis*	3
EDPY 604 Multiple Regression Techniques as Applie	e 3	EDPY 604 Multiple Regression Techniques as Applie	3
EDPY 606 Multivariate Analysis	3	Research/Statistics Elective **	3
	3	Biomedical/Technologies (* = required)	
		BIOMED 510 Physiology	3
		Electives **	
		NUTR/BIOL/BIOM/CHEM/ECE/MSET	3-15

^{**} Advisor approval required; POS committee approval required for substitutions

3/11/2016 AutoCurric Form C

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Curriculum Workflow



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	DEGREE/PROGRAM CHANGE FORM C	
	Form Number: C1690	
Fields marked with * are required		
Name of Initiator: Brian Vineyard Email: viney	rard@unm.edu Phone Number: 50	05 277-2140 Date: 10-05-2015
	Initiator's Title* Sr Academic Advisor	r: Arts Sciences Advisement
Faculty Contact* Laura Crossey	Administrativ	ive Contact* Brian Vineyard
Department* EPS	Admin	n Email* vineyard@unm.edu
Branch		Admin Phone* 639-2096
Proposed effective term Semester Fall ▼ Year 2016 ▼		
	Course Information	
Select Appropriate Program* Undergraduate	Degree Program ▼	
Name of New or Existing Program* Bachelor of	Science in Environmental Science	
	e Type Undergraduate	
Select Action		
Exact Title and Requirements as they should a See current catalog for format within the respecti		nange, upload current and proposed requirements
ENVS BS 2016-17 - Major.pdf		
Does this change affect other departments	al program/branch campuses? If yes	s, indicate below.
Reason(s) for Request* (enter text below or up No	load a doc/pdf file)	
Upload a document that inlcudes justification f workload implications.* (upload a doc/pdf file)	or the program, impact on long-rang	ge planning, detailed budget analysis and faculty
2016-17 Environmental Science Curriculum Rec	esign proposal.pdf	
☐ Are you proposing a new undergraduate d	egree or new undergraduate certific	cate? If yes, upload the following documents.
Upload a two-page Executive Summary author	ized by Associate Provost.* (upload	d a doc/pdf file)
Upload memo from Associate Provost authori	zing go-ahead to full proposal.* (uplo	oad a doc/pdffile)
Approve and Sign Off	Send back to Initiator (Brian V Comment on this Form	
Office of the Registrar MSC06 3650 1 Univer	sity of New Mexico Albuquerque, NM 87131-000	001

Bachelor of Science in Environmental Science

Required Courses

ENVS 101, 102L (or EPS 101, 105L), 315, 320L, 321L, 322L, 323L, 324, 430L, EPS 401 & 490 and 12 additional credit hours in Earth and Planetary Sciences (excluding 493 and 495) or other approved courses (of which no more than 4 credit hours may be below 300). (**Total = 44 credit hours**)

Supporting Math/Science Required Courses

CHEM 121/123L, 122/124L; MATH 162, 163; PHYC 160, 161; BIOL 123/124L (or higher), CS 151L (or 152L), and 3 additional credit hours from: Chemistry (above 124L), Mathematics (above 163), Physics (above 161), Biology (above 124L), Astronomy (270 or above) or, with permission, from selected Geography or Engineering courses. An additional advanced math class selected from: 264, 311, 314, or 316 is strongly encouraged.

(Total = 32 credit hours)

ENGL 219 or 220 or 290 is required.

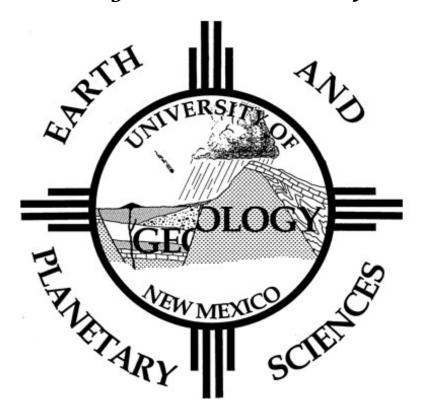
No minor study is required for students completing the B.S. program, although an optional minor or second major may be selected.



THE UNIVERSITY of NEW MEXICO

COLLEGE of ARTS & SCIENCES

Department of Earth & Planetary Sciences



Environmental Science Curriculum Redesign

proposed for 2016-17 academic year

TABLE OF CONTENTS

- 3. Introduction
- 5. Faculty Workload and Budgetary Impacts
- 6. Proposed new ENVS Major and Minor requirements
- 7. B.S. in Environmental Science: College Algebra Ready Four Year Roadmap
- 8. B.S. in Environmental Science: Learning Outcomes Matrix
- 9. Proposed Syllabi

ENVS 315	Statistics and Data Analysis (Replaces EPS 428 & 433)
ENVS 320L	Environmental Systems (Replaces ENVS 330)
ENVS 321L	Earth Materials and Critical Zone Geology
ENVS 322L	Life and the Earth System
ENVS 323L	Water in the Earth System
ENVS 324	Earth's Climatic Environment (Replaces EPS 436)
ENVS 430L	Advanced Environmental Science (lab officially added)

Assembled by:

Joseph Galewsky Gary Weissmann David Gutzler Brian Vineyard

February 2015 to September 2015

INTRODUCTION

The Earth & Planetary Sciences (EPS) Department proposes a major revision to its B.S. degree program in Environmental Science (ENVS), with corresponding revisions to the ENVS undergraduate minor. The ENVS major was initiated in 2000 within the EPS Department to complement its eponymous B.S. and B.A. majors that emphasize field geology. ENVS was designed to "incorporate quantitative studies of the various interactions between the solid earth, oceans, atmosphere and biological processes taking place" within the whole Earth system. Since the implementation of ENVS, the degree program has grown to numerical parity with the EPS B.S. program: our most recent numbers indicate 195 declared ENVS majors and 148 declared EPS majors. ENVS offers one of the most popular physical science class in the A&S core curriculum (ENVS 101, The Blue Planet), which enrolled 1459 students in AY 2014-15. As we had hoped, ENVS graduates have moved into a very broad spectrum of career activities, ranging from graduate studies in the "hard sciences" to professional pursuits in the field of environmental sciences or in other areas, such as business, law and journalism. The ENVS curriculum is a success.

ENVS was developed 15 years ago with no new resources from the college. Existing courses were organized into the best curriculum we could cobble together, using an extensive list of groups of classes to loosely organize a course of study. The EPS department's instructional resources were stretched to accommodate just two new classes that formed the only upper division requirements for the new major. Given the success of the major, the addition of new faculty with degree-related expertise within the department, and the experience we have gained with the major over the past 15 years, we are now in a position to undertake a major revision to address aspects of the ENVS curriculum that need augmentation. We propose to develop a much firmer, objectives-driven sequence of required upper division courses that will explicitly carry the ENVS prefix in the UNM course catalog. Several of these courses are newly developed to serve ENVS majors; several others are adaptations of existing, popular EPS upper division courses now taken by most ENVS majors. We propose relatively modest changes to the ENVS minor that are consistent with the redesign of the major.

From the Student and Advisement perspective, this new curriculum will greatly help with long term degree planning and, as a related consequence, likely shorten student's average time to completion. Currently, with the structure of our Environmental Science curriculum, students know that they are required to complete 30 hours total from the seven different groups, but the sub-requirement of at least 6 hours within 4 different groups often proves to be very challenging to plan for past the current semester. The eventual selections made by many students, based largely on only the remaining groups needed, and offerings available, can lead to a lack of full exposure to what this new curriculum considers core concepts of this degree. This currently existing shortcoming is being rectified with the revised structure of our new curriculum designed to closely match our current Earth & Planetary Sciences degree format in that it has a more extensive required degree core sequence, which is composed of courses specifically offered in designated terms. We are however still asking for the completion of 12 additional hours of major electives (the same as EPS), which maintains the added benefit our degrees possesses by allowing students to further study topics of added personal interest to them beyond the core concepts, and fully utilize the vast knowledge and experience provided by the faculty. Furthermore, this new degree core structure will also allow ENVS majors the extensive cohort style learning benefits currently available to all EPS majors.

Faculty Workload and Budgetary Impacts

In order to cover the new classes, the EPS faculty members have had several detailed discussions about how to arrange our regular teaching rotations. Recently hired faculty members, Corrine Myers and Lindsay Lowe Worthington, have already committed to teaching the new ENVS 322L and ENVS321L courses, respectively, as part of their regular teaching rotations. In order to free up additional faculty time to support the new curriculum, we propose to sunset the following classes:

ENVS 330 (Environmental Systems), replaced by ENVS 320L (Environmental Systems).

EPS 428 (Applied Mathematics for Earth and Environmental Sciences) and

EPS 433 (Statistics and Data Analysis), replaced by ENVS 315 (Statistics and Data Analysis)

EPS 436 (Climate Dynamics), replaced by ENVS 324 (Earth's Climatic Environment)

The EPS faculty have identified current faculty members who will teach the new courses, no new faculty lines are required to cover the new curriculum.

In order to support the new laboratory components of the curriculum, we are requesting an additional 2 full time (20 hr/week) teaching assistants. This will allow us to support the new labs without compromising our current introductory lab offerings for non-majors, which are currently already oversubscribed. If no new TA resources are available, the new curriculum may still be supported by reducing the number of introductory labs in order to support our ENVS majors.

Bachelor of Science in Environmental Science

Required Courses

ENVS 101, 102L (or EPS 101, 105L), 315, 320L, 321L, 322L, 323L, 324, 430L, EPS 401 & 490 and 12 additional credit hours in Earth and Planetary Sciences (excluding 493 and 495) or other approved courses (of which no more than 4 credit hours may be below 300).

(Total = 44 credit hours)

Supporting Math/Science Required Courses

CHEM 121/123L, 122/124L; MATH 162, 163; PHYC 160, 161; BIOL 123/124L (or higher), CS 151L (or 152L), and 3 additional credit hours from: Chemistry (above 124L), Mathematics (above 163), Physics (above 161), Biology (above 124L), Astronomy (270 or above) or, with permission, from selected Geography or Engineering courses. An additional advanced math class selected from: 264, 311, 314, or 316 is strongly encouraged.

(Total = 32 credit hours)

ENGL 219 or 220 or 290 is required.

No minor study is required for students completing the B.S. program, although an optional minor or second major may be selected.

Minor Study Requirements

Minor in Environmental Science

A total of at least 18 credit hours distributed as follows:

1. ENVS 101 & 102L (or EPS 101 & 105L), and ENVS 320L.

Plus at least 10 additional credit hours selected from ENVS 315, 321L, 322L, 323L, 324, or 430L; EPS 201L, 251, 333, 352, 410, 415, 439, 455L, 462, 476, 481L, or 485L; GEOG 381L; or other approved courses. Only one course numbered 299 or below may count toward this requirement.

BS Environmental Science College Algebra Ready - Four Year Road Map

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Semester One:								Semester Two:	
ENVS 101/102L or EPS 101/105L	4	4		4		C		CHEM 121/123L	4
BIOL 123/124L	4	4				C		CS 151L or 152L	m
MATH 121	3			3		C		MATH 153	2
1st English Composition	3			3		С		2nd English Composition	3
Freshman Academic Choice	3					CR			
Total:	17	8	0 10	10	0			Total:	1
Advisement: How to use the Degree Audit	dit					(anyti	(anytime after the 10th week)	Advisement: Enhanced Degree Audit skills	cills

Semester Three:								Sem
ENVS 320L	4	4			4	С		ENV
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PHYC 160	3	3				С		PHY
CHEM 122/124L	4	4				С		ENG
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			(1)	~

Visit Career Services

Semester Seven:							
ENVS 324	Э	3			3	J	
ENVS Elective	3	3			3	С	
Core Requirement	3			3		С	C See List
Core Requirement	3			3		С	C See List
Upper-Division Elective	3				3	S	CR EPS 493 Recommended
Total	15	9	0	9	6		

(within the 4th to 12th week))					ntation	Advisement: Attend Departmental Orientation
		4	9	0	14	17	Total
	C		3			3	Second Language
	C		3		3	3	ENGL 219 or 220
	C				3	3	PHYC 161
	C				4	4	MATH 163
	С	4			4	4	ENVS 321L
							Semester Four:

Semester Six:							
ENVS 323L	4	4			4	J	
ENVS Elective	3	3			3	C	
ENVS Elective	3	3			3	С	
Core Requirement	3			3		C	C See List
Core Requirement	3			3		J	C See List
Total	16	16 10	0	9	10		
Complete Graduation Workshop & Apply for degree	for deg	ree					(after 4th week)
Advisement: Departmental Check-In							

Semester Eight:							
ENVS 430L	4	4			4	С	
EPS 401	1	1			1	C	
EPS 490	1	1			1	С	
Upper-Division Elective	8				3	CR	CR EPS 495 Recommended
Additional hours may be needed this term for scholarship or discounted tuition requirements	m for sc	holarsh	ip or dis	counted	l tuition	require	ments
Total	6	9	0	0	6		
Advisement: Senior Visit							
and deadless and							

120

Degree Total

49

38

79

*No minor study is required for students completing the B.S. program, although an optional minor or second major may be selected.

Advisement: Departmental Check-In / Senior Visit

					ENVS CORE CLASSE				
Learning Outcome/objective	The Blue Planet (ENVS 101)	The Blue Planet Lab (ENVS 102L)	ENVS 320L (4): Environmental Systems (*formerly ENVS 330)	Spring ENVS 321L (4): Earth Materials / Critical Zone	Fall ENVS 322L (4): Life and the Earth Systems	Fall ENVS 315 Statistics in Earth Sciences	Spring ENVS 323L (4): Water in the Earth System	Fall ENVS 324 (3): Earth's Climatjc Environment	ENVS 430L: Advanced Environmental Systems / Environmental Field Methods
Pre-Requisites	3 None	1	4 ENVS 101/102 OR EPS 101/105L; MATH 121	4 ENVS 320L; CHEM 121/122L; MATH 150 OR MATH 153	4 ENVS 321L; MATH 150 OR MATH 153; BIOL 123/124L	3	MATH 162; PHYC 160; CS151L; ENVS 315	3 ENVS323L; MATH 163; PHYC 160	4 ENVS 324
Co-Requisites CLASSES YOU SHOULD BE TAKING	None MATH 121 or MATH 150 or MATH 153; CHEM 121/123L	MATH 121 OR MATH 150 OR MATH 153; CHEM 121/123L	CHEM 122/124L	MATH 162	PHYC 160	MATH 162	MATH 163 MATH 163		
	Staff		Weissmann Scuderi	Fischer Worthington-Lowe	Myers Scuderi	Gutzler Galewsky	Weissmann Galewsky	Gutzler Fawcett	Crossey
P1. Students will be able to evaluate conservation			Schmandt	Meyer		Myers			
of mass, momentum and energy transformations in Earth's Systems	Introduced	Introduced	Practiced	Practiced	Practiced		Practiced	Mastered - Evaluated	
P2. Students will be able to analyze the role of Earth Materials (rocks and minerals) and Earth Structure (plate tectonics) in Earth Systems.	Introduced	Introduced	Practiced	Practiced	Practiced		Practiced		Mastered - Evaluated
P3. Students will be able to evaluate a landscape to infer active and past processes and current and past climates.			Introduced	Practiced			Practiced		Mastered - Evaluated
P4. Students will be able to evaluate interactions between different spheres (Atmosphere, hydrosphere, biosphere, geosphere)	Introduced	Introduced	Practiced	Practiced	Practiced		Practiced	Practiced	Mastered - Evaluated
P5. Students will be able to evaluate atmospheric processes and impacts of global climate change on atmospheric systems.	Introduced	Introduced	Practiced	Practiced	Practiced		Practiced	Mastered - Evaluated	
P6. Students will be able to evaluate case studies on environmental and scientific ethics and be able to define ethical behavior in science.			Introduced	Practiced	Practiced	Practiced	Practiced	Practiced	Mastered - Evaluated
P7. Students will be able to apply the scientific method to analyze a problem in Environmental Sciences.	Introduced	Introduced	Practiced	Practiced	Practiced	Practiced	Practiced	Practiced	Mastered - Evaluated
P8. Students will be able to analyze the impact of the biosphere, through the porcess of evolution and ecology, on the Earth System.	Introduced	Introduced	Practiced		Practiced/ Mastered - Evalu-				Mastered - Evaluated
Skills:									
Computational Skills:									
S1. Students will be able to apply algerbraic equations to solve Environmental Science problems.	Introduced	Introduced	Introduced	Practiced		Practiced	Practiced	Practiced	Mastered - Evaluated
S2. Students will be able to apply basic statistics to analyze a data set.	Introduced	Introduced	Introduced	Practiced	Practiced	Practiced/ Mastered - Evalu-	Practiced	Practiced	Practiced
S3. Students will be able to evaluate and generate data for use in time series and geospatial analysis.			Introduced		Practiced	Practiced	Practiced	Practiced	Mastered - Evaluated
S4. Students will be able to solve derivatives and integrals as related to Environmental Sciences, and evaluate differential equations analytically or numerically.			Introduced	Practiced			Practiced	Practiced	Mastered - Evaluated
S5. Students will be able to write equations and evaluate fluxes in an Earth system using finite difference solutions.			Introduced				Practiced		Mastered - Evaluated
S6. Students will be able to apply and evaluate geochemical reactions in a natural system using geochemical modeling software.			Introduced	Practiced			Practiced		Mastered - Evaluated
S7. Students will be able to demonstrate proficiency in using 3D analysis and visualization software.				Introduced			Practiced		Mastered - Evaluated
GIS skills: S8. Students will be able to download data from a reliable source and create relevant maps using the data.			Introduced		Practiced	Practiced	Practiced	Practiced	Mastered - Evaluated
S9. Students will be able to place spatial data into a GIS database.			Introduced		Practiced	Practiced	Practiced		Mastered - Evaluated
S10. Students will be able to make measurements of slope, aspect, and gradients using GIS tools, and they will be able to create derivative maps (e.g., drainage basins delineation, etc).		Introduced	Introduced			Practiced	Practiced		Mastered - Evaluated
Field methods: S11. Students will be able to produce a detailed map of a study site and place this into a GIS format.			Introduced	ı			Practiced		Mastered - Evaluated
S12. Students will be able to follow protocols for acquiring field data (e.g., geochemical protocols, water level sampling)		Introduced	Introduced	Practiced	Practiced		Practiced		Mastered - Evaluated
Geochemistry skills: 13. Students will be able to apply concepts in interexhange equilibruim, thermodynamics, redox, solution chemistry, and organic chemistry to geochemical problems.			Introduced	Practiced		1	Practiced		Mastered - Evaluated
Communication and writing skills S14. Students will be able to write a clear and concise report using proper grammar and spelling.			Introduced	Practiced	Practiced		Practiced	Practiced	Mastered - Evaluated
S15. Students will be able to present material in a concise oral or poster format.			Introduced		Practiced				Mastered - Evaluated
S16. Students will be able to find and synthesize published works (library research)			Introduced		Practiced		Practiced	Practiced	Mastered - Evaluated
** outcomes P1-P7 (top of list	t) should he asse	ssible for the prop	rammatic assessi	ment					

^{**} outcomes P1-P7 (top of list) should be assessible for the programmatic assessment

Proposed New Course Syllabi

ENVS 315	Statistics and Data Analysis (Replaces EPS 428 & 433)
ENVS 320L	Environmental Systems (Replaces ENVS 330)
ENVS 321L	Earth Materials and Critical Zone Geology
ENVS 322L	Life and the Earth System
ENVS 323L	Water in the Earth System
ENVS 324	Earth's Climatic Environment (Replaces EPS 436)
ENVS 430L	Advanced Environmental Science (lab officially added)

PROPOSED SYLLABUS

COURSE: ENVS 315: Statistics in Earth Sciences

Instructor: Email

Office Location:Office Phone:Office Hours:Course Credits: 3

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Fall XX

Course Description: Statistical analysis plays an important role in understanding Earth Systems. In this class we will explore basic statistical representations of earth science data, matrix algebra, and multivariate data analysis and Fourier analysis. You will gain a basic understanding of probability and statistics, with particular application to Earth Science data analysis. You will conduct this work in the Excel software environment, thus becoming more familiar with spreadsheet-based analysis. You will also explore ethical data analysis practices.

Pre-Requisites: None

Co-Requisites: MATH 162

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

1. Quantify uncertainties using basic principles of probability, and assess the statistical significance of calculations based on limited samples of data

[Learning Outcomes P6, P7] [Skill Outcome S2]

2. Apply basic statistics to analyze a data set

[Learning Outcomes P6, P7] [Skill Outcome S2, S8]

3. Evaluate time series quantitatively using standard data analysis techniques

[Learning Outcome P7] [Skill Outcome S3, S8]

4. Assess spatial variance and understand statistical terminology associated with geographic information systems

[Learning Outcome P7] [Skill Outcomes S8, S9, S10]

Proposed Textbook and Supplies:

Required: Statistics and Data Analysis in Geology,

3rd Edition, 2002

by John C. Davis (Wiley)

Recommended: A Statistics Cookbook (Schaum's outline is a venerable and inexpensive one)

Other books:

Data Analysis in the Earth Sciences, G. Middleton (Prentice Hall, 2000)

Introduction to Linear Algebra in Geology, J. Ferguson (Chapman & Hall, 1994)

Mathematics: A simple tool for geologists, D. Waltham (Chapman & Hall, 1994)

Fourier Analysis of Time Series: An Introduction, P. Bloomfield (Wiley, 2000)

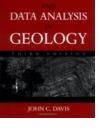
Spectral Analysis in Geophysics, M. Båth (Elsevier, 1978)

Statistical Methods in the Atmospheric Sciences, D. Wilks (Academic, 1995)

Statistical Analysis in Climate Research, von Storch and Zwiers (Cambridge, 1999)

Matlab Recipes for Earth Sciences, M.H. Trauth (Springer 2007)

Spatiotemporal Data Analysis, G. Eschel (Princeton, 2012)



STATISTICS

Expected Course Format:

The course will be conducted using a combination of lecture and homework exercises. Work will include:

Readings from the Davis textbook, plus supplemental handouts from the instructor

Homework assigments:

Six homework sets will be assigned, as listed on the following course schedule pages. The homework will involve both hand calculations and spreadsheet calculations using Excel.

...no credit for homework turned in late!

Exams:

1 midterm, 1 final exam, in class on the dates shown on the course outline that follows.

Expected Course Requirements and Grading:

Homework Exercises	40%
Midterm Exam	25%
Final Exam	35%

Grading Scale: A+ (97 -100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

- decimal portions will be rounded up if over 0.5, down if below 0.5

** I reserve the right to modify the strict point system for grading.

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<u>All students are required to have a university e-mail account.</u> We will be using <u>UNM LEARN</u> as a course tool and it requires a UNM NetID account for access. Also, I will email updates/changes to the class and reminders or help for assignments during the duration of the class. You will need to use your UNM email (or forward that email) to get these announcements. YOU NEED TO USE <u>UNM LEARN</u> IN ORDER TO BE SUCCESSFUL IN THIS CLASS!

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Course Outline: Lecture schedule is approximate; deadlines and exam dates are fixed

week	dates	topic [1	og/Davis 3ed]	<u>coursework</u>
1		Introduction to Probability and Statistics (Ch 1, 2)		
	M	Introduction to probability	[1-24]	
	W	Discussion: Introduction to Excel		
	F	no class on this day		
2		Probability (Ch 2)		
	M	MLK holiday; no class		
	W	Discussion: Laws of probability; Frequentist vs Bayesian app	roaches	HW 1 posted
	F	Distributions and random variables	[25-33]	
3		Summary statistics (Ch 2)		
	M	Measures of central tendency and spread	[34-39]	
	W	Discussion: HW1; estimates of average, spread, and correlation	on	
	F	Multivariate analysis: Covariance and correlation	[40-50]	HW 1 due
4		Assessment of confidence and significance (Ch 2)		
	M	Normal distributions; Central Limits Theorem	[50-59]	
	W	Discussion: significance tests, significant digits, and random	numbers	HW2 posted
	F	Null hypotheses; significance tests; confidence intervals	[60-74]	
5		Analysis of variance; non-normally distributed data (Ch 2))	
	M	F-distribution; Analysis of variance (ANOVA)	[75-92]	
	W	Discussion: HW2; ANOVA		
	F	c2, Gamma distributions; non-normally distributed data	[92-107]	HW 2 due
6		Sequences of data; time series analysis (Ch 4)		
	M	Sequences & runs of data; missing data;	[159-191]	
	W	Discussion: Intro to time series analysis; Poisson distribution		HW 3 posted
	F	Least-squares curve fitting	[191-227]	
7		Linear regression (Ch 4, 6)		
	M	Linear regression	[191-227]	
	W	Discussion: HW3; regression		
	F	Multiple regression	[461-470]	HW 3 due
8		Review / Midterm exam		
	M	makeup/catchup		
	W	Discussion: review for midterm exam		
	F	Midterm exam in class		exam
	Spring E	Break		
9	3.6	Time series: time domain vs frequency domain analysis	ra 12 2	
	M	Autocorrelation, autocovariance; intro to Fourier series	[243-268]	-
	W	Discussion: discuss midterm exam; basic trigonometry review		HW 4 posted
	F	Spectral analysis: Fourier's theorem	[268-277]	
10		Introduction to spectral analysis (Ch 4)		
	M	Power spectrum	[275-277]	
	W	Discussion: HW4; periodograms, power spectra		
	F	Smoothing: tradeoff between resolution & confidence	handout	HW 4 due

11		Spectral analysis - continued		
	M	Significance of spectral peaks	handout	
	W	Discussion: spectral smoothing; assessment of spectral peaks		HW 5 posted
	F	Cross-spectral analysis	handout	
12		Introduction to eigenanalysis (Ch 3)		
	M	Matrix algebra, determinants, inverse	[123-141]	
	W	Discussion: HW5; systems of linear equations		
	F	Introduction to eigenvectors	[141-153]	HW 5 due
13		Eigenanalysis - continued (Ch 3, 6)		
	M	Principal components analysis; eigenvectors	[509-525]	
	W	Discussion: EOFs and PCs		HW 6 posted
	F	Principal components analysis, part II	[509-525]	
14		Spatial Analysis (Ch 5)		
	M	Directional and spherical data	[316-341]	
	W	Discussion: HW6		
	F	Contouring / Trend surfaces	[380-407]	HW 6 due
15		Spatial Analysis - continued		
	M	Introductory concepts of kriging	[416-428]	
	W	Discussion: return HW6, summary of temporal and spatial ar	nalysis	
	F	review for final exam		

Final Exam (according to final exam schedule)

PROPOSED SYLLABUS

COURSE: ENVS 320L: Environmental Systems (Replaces ENVS 330)

Instructor: Emai

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Fall XX

Course Description: Analysis of environmental science data focusing on local water, soil, atmospheric, and bedrock systems and comparisons to analogous systems around the world. In-class exercises, outdoor data collection trips, and laboratory exercises provide hands-on experience with collection of physical and chemical data, mapping, data base development, and basic statistical and geospatial analysis.

Pre-Requisites: ENVS 101 (The Blue Planet) or EPS 101 (How the Earth Works); ENVS 102L (The Blue Planet Lab) or EPS 105L (How the Earth Works Lab); MATH 121 (College Algebra)

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Students will be able to describe the general characteristics of each of the principal components of the Earth System (geosphere, hydrosphere, atmosphere, and biosphere).

Links to Programmatic Objectives P1, P2, and P4.

Students will be able to describe and conceptually model the conservation of mass, momentum, and energy in Earth Systems, and students will be able to analyze fluxes of energy and key elements and compounds, including water, carbon, and nitrogen (biogeochemical cycles), between the principal components of the Earth System through use of box models, simple Excel spreadsheets, and graphing.

Links to Programmatic Objectives P1, P2, P4, and P5 and Skills Objectives S1, S2, S5, and S6.

Students will be able to apply simple (algebraic-based) mathematical models to define Earth system processes. Students will begin to use calculus principles used to describe Earth system processes.

Links to Skills Objective S1, S4.

Students will be able to apply common tools used in Environmental Science, such as interpretation of maaps, graphs, figures, and box models to enable analysis and synthesis of data collected in the field.

Links to Programmatic objectives P3, P6 and P7 and Skills Objectives S1, S8, S9, S10, S11, S12 and S13.

Students will be able to employ common software for scientific work, such as word processing, spreadsheet programs, and presentation software.

Links to Skills Objectives S3, S10 and S15.

Students will be able to search, read and report on literature related to Environmental Science, and students will be able to present this material in a concise manner (specifically in a poster presentation).

Links to Skills Objectives S14, S15, and S16.

Students will be able to explain and describe some principles of ethics in the conduct and application of science, within the academic and professional arenas.

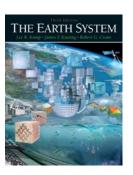
O Links to Programmatic Objective P6.

Proposed Textbook and Supplies:

The Earth System, Third Edition, 2009

by Lee R. Kump, James F. Kasting, and Robert G. Crane

Supplemented by course pack tailored to modules.



Expected Course Format:

The course and laboratory exercises are organized into 4 modules with a required data collection field trip during each module as part of the lab component. Each module follows a similar sequence beginning with a brief introduction to the relevant local environment, the questions to be investigated, and development of a data collection plan. Once data are collected different principles will be introduced at the beginning of the week progressing toward application of those principles to newly collected data and public data by the end of the week. Frequent (1-2 per week) in-class exercises will focus on quantitative analysis drawing from basic statistics, mechanics, chemistry, and geospatial analysis. The lecture portion of the course will incorporate data collected in the lab course and place the local environmental systems in a global and temporally evolving perspective. Additionally, the lecture portion will include exercises related to application of principles of conservation of mass, momentum, and energy at various scales (from global to local scales) and feedback loops.



Expected Course Requirements and Grading:

In-Class Exercise Write-ups and Homework Exercises	20%	Several homework assignments during the course of the semester.
Laboratory Exercise/Module Write- ups	15%	A final write-up will be required for each of the 4 lab modules.
Exams	25% total	Two midterm exams
	15%	Final Exam (Comprehensive)
Participation	5%	Evaluated on participation in activities.
Final Project	20%	Poster presentation and related assignments.

Grading Scale: A+ (97 -100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

Email / Internet Access Policy:

<u>All students are required to have a university e-mail account.</u> We will be using <u>UNM LEARN</u> as a course tool and it requires a UNM NetID account for access. Also, I will email updates/changes to the class and reminders or help for assignments during the duration of the class. You will need to use your UNM email (or forward that email) to get these announcements. YOU NEED TO USE <u>UNM LEARN</u> IN ORDER TO BE SUCCESSFUL IN THIS CLASS!

Attendance Policy:

Regular and punctual attendance is required. UNM *Pathfinder* policies apply, which in part means instructor drops based on non-attendance are possible. This policy applies regardless of the grading option you have chosen.

Accommodation Statement:

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Draft Schedule of Topics:

Module 1 – Physical aspects of surface water transport and riparian environments.

Lecture portion topics:

Systems science introduction

Hydrologic cycle exercises and box models;

Basics of feedback loops;

Basic statistics primer exercises;

Measurement of surface water discharge;

Riparian ecology; and

General GIS applications and computer management.

Lab portion:

Field notebook methods;

Field data collection and observations at the Bosque;

Tree height, density, and diameter measurements;

GPS waypoint collection techniques.

Stream gaging exercise (field trip to small local stream for gaging);

Application of basic statistics to field data (distributions, central estimators, variance, etc.);

Data downloading from governmental agency sources (e.g., stream gage data and aerial photographs; and Introduction to Geographic Information Systems (GIS) software.

Module 2 – Sandia Crest vegetation change and climate.

Lecture portion topics:

Global energy balance;

Atmospheric circulation patterns and relationship to NM climate;

Atmospheric processes and weather (e.g., orographic effects);

Local insolation calculations; and

Climate variability.

Lab portion topics:

Basic orienteering with map and compass;

Temperature data collection as functions of elevation and time (download data from sensors placed in the field).

Field observations of vegetation relationships relative to slope and aspect in the Sandias, and observations of tree density and mortality.

Field observations of soil textures along the Rio Grande to Sandia Crest transect (to be used in Module 3).

Remote sensing exercises to evaluate vegetation distributions from Landsat data (e.g., NDVI and EVI), change in vegetation, and influence of insolation on vegetation distribution (modeled using tools in ArcGIS)

Module 3 – Alluvial fans/foothills geomorphology.

Lecture portion topics:

Fluvial and hillslope processes and the influence and evidence of past climate changes;

Drainage network evolution and stream order;

Controls on deposition and erosion.

Weathering (geosphere / atmosphere interactions) and soil development; and

Rio Grande Rift development and influence of faults and structures on groundwater recharge.

Laboratory portion topics:

Field mapping exercises on terraces and alluvial fans at Sandia foothills;

Drainage basin mapping and evaluation;

Sediment source area delineation

Drainage basin geomorphic metrics and stream order calculations;

Locating springs using aerial photography;

Evaluation of soil textures along transect and relationship to fluvial/alluvial geomorphology.

Module 4 – Bosque, geochemistry focus.

Lecture portion concepts:

Geochemistry principles – anion/cation balance, chemical equilibrium;

Geochemical sampling and water quality;

Natural and anthropogenic sources of constituents in groundwater; and

Groundwater resources and movement.

Statistical analyses – probability, correlation, regression, ANOVA.

Lab portion concepts:

Field geochemical measurement and sampling methods;

Laboratory processing and evaluation of samples;

Basic geochemical modeling and chemical charge balance; and

Statistical analysis of geochemical results.

Summary week - Establish links between modules.

PROPOSED SYLLABUS

COURSE: ENVS 321L: Earth Materials and Critical Zone Geology

Instructor: Emai

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Spring XX

Course Description: Rocks and minerals form a critical foundation for all Earth's systems, and understanding the chemical composition and physical characteristics of these Earth's materials is important for work in Environmental Sciences. This course covers rock and mineral formation, chemistry, stability, and transformations on Earth's surface, focusing on processes related to the "critical zone", or uppermost crust.

Pre-Requisites: ENVS 320L (Environmental Systems); CHEM 121/123L (General Chemistry 1 and lab); MATH 150 (Precalculus) or MATH 153 (Pre-calculus and Trigonometry)

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Differentiate different rock types (e.g., igneous, metamorphic, and sedimentary), identify basic minerals in these rocks, and explain their environments of formation and interpret their plate tectonic context.

Links to Programmatic Objectives P1, P2, and Skills Objectives S1, S13, and S14.

Employ knowledge of isotopic systems to calculate age of rocks and interpret processes of formation Links to Programmatic Objectives P1, and Skills Objectives S1, S2, S13

Employ knowledge of mineral and rock formation to assess the fundamental causes and types of physical and chemical weathering

Links to Programmatic Objectives P1, P2, P4 and P7 and Skills Objectives S1, S6, S12, and S13

Apply knowledge of the genesis of different secondary weathering products and soils to analyze the origin and evolution of diverse landforms and associated surficial processes.

Links to Programmatic Objectives P2, P3, P4 and P7 and Skills Objectives S1, S6, S12, and S13

Map and interpret various soil morphological, chemical and mineralogical properties, describe and classify soil horizons, and interpret the formation of soil profiles in diverse landscapes and climate regimes.

Links to Programmatic Objectives P2, P3, P4 and P7 and Skills Objectives S12

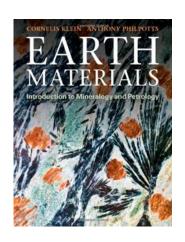
Proposed Textbook and Supplies:

Earth Materials: Introduction to Mineralogy and Petrology, 2012

by Cornelis Klein and Anthony Philpotts

*** or similar textbook, to be determined.

Supplemented by course pack tailored to course material.



Expected Course Format:

The course is divided into a lecture/activity section and a laboratory section. In the lecture portion, students will cover information relevant to several topics related to Earth Materials including mineral formation and geochemistry, rock formation, the rock cycle tied to plate tectonics, radiometric age dating, weathering, and soils and geomorphology. The laboratory portion of the class provides training on skills needed to assess rocks and minerals in the field and in the laboratory, including sections focused on microscopy, hand sample analysis, field data collection, and field mapping.

Expected Course Requirements and Grading:

Homework Exercises	20%	Several homework assignments during the course of the semester.
Laboratory Exercise/Module Write- ups	25%	A final write-up will be required for each lab exercise.
Exams	25% total	Midterm Exam
	30%	Final Exam

Grading Scale: A+ (97 -100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

- decimal portions will be rounded up if over 0.5, down if below 0.5

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Draft Schedule of Topics:

Lecture Portion:

Introduction to Earth Materials

Minerals – building blocks of rocks.

Geochemistry – analyses of rocks

The rock cycle

Magma and igneous rocks

Metamorphic rocks

Sedimentary rocks and depositional environments

Global tectonics - plates and plumes

Earth materials as time keepers

Weathering of Earth Materials

Physical weathering

Chemical weathering

Soil science

Formation of soils – geomorphology

Soil classification

Soils in different climates

Soils and landforms

Impacts of climate change on soils

Field trip based – alluvial fans, terraces, pediments, hillslopes

Earth surface materials

Soil morphological properties

Secondary minerals

Laboratory Portion:

Igneous minerals

Hand specimen based

Igneous rocks

Hand specimens

Petrographic microscope

Magma chamber and magma differentiation

Quantitative exercise

Metamorphic minerals

Hand specimens

Metamorphic rocks

Hand specimens and thin sections

Sedimentary Rocks (clastic and chemical)

Hand specimen and thin sections

Surface materials and processes

Field trip based – fluvial, eolian, mass movement

Terrestrial landforms

Field trip based – alluvial fans, terraces, pediments, hillslopes

Earth surface materials

Soil morphological properties

Secondary minerals

PROPOSED SYLLABUS

COURSE: ENVS 322L: Life and the Earth System

Instructor: Corinne Myers Email: cemyers@unm.edu

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): MWF Class Time:

Class Location / Room: Term/Semester: Fall XX

Course Description: Investigation of the co-evolution of the Earth and life, including origins and evolution of life, ecology and biogeography, biogeochemical cycles, and the impact of a dynamic Earth environment on major radiations and extinctions. In-class discussions and exercises, labs, and field trips are geared towards establishing expertise in hypothesis generation, data collection, basic statistical analysis, and visualization and spatial analysis using a GIS.

Pre-Requisites: BIOL 123 (Biology for Health Related Sciences and Non-Majors); BIO 124L (Lab); ENVS 101 (The Blue Planet); ENVS 102L (The Blue Planet Lab); MATH 150 (Pre-Calculus Mathematics) or MATH 153 (Pre-Calculus and Trigonometry); ENVS 320L (Environmental Systems); ENVS 321L (Earth Materials)

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Students will be able to describe feedbacks between life the other spheres (geosphere, hydrosphere, atmosphere), including specific examples of how life impacts the abiotic Earth environment and how the abiotic environment impacts life over short and long spatiotemporal scales.

Links to Programmatic Objectives P1, P2, P4, P8.

Students will be able to define basic principles and concepts of the origin of life, biodiversity, ecology, and evolution. Students will be able to identify processes uniquely occurring in evolution vs. ecology and analyze the linkages between them.

Links to Programmatic Objectives P1, P8.

Students will be able to define ways in which human behaviors impact the biosphere. Students will be able to analyze the potential consequences of human impacts at appropriate spatiotemporal scales within both an evolutionary and ecological context.

Links to Programmatic Objectives P1, P5, P6.

Students will be able to apply common tools used in Environmental Science, such as interpretation of maaps, graphs, figures, and statistical models to enable analysis and synthesis of data collected in the field and from online databases.

Links to Programmatic Objectives P6, P7; Skills Objectives S2, S3, S8, S9.

Students will be able to employ common software for scientific work, such as word processing, spreadsheet programs, presentation software, and basic data visualization and spatial analysis in a GIS.

Links to Programmatic Objective P7; Skills Objectives S2, S3, S8, S9.

Students will be able to search, read and report on literature related to Environmental Science, and students will be able to present this material in a concise manner (e.g. in an oral presentation and/or a written report).

Links to Programmatic Objective P7, and Skills Objectives S14, S15, S16.

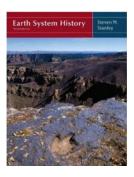
Students will be able to apply scientific methods to a research question in Environmental Science, as well as explain the impact of science in their daily lives and expected careers.

Links to Programmatic Objective P1, P4, P6, P7; Skills Objectives S2, S3, S12, S14, S15.

Proposed Textbook and Supplies:

Earth System History, Third Edition, 2008 by Steven M. Stanley (4th ed just came out Feb 2014...?)

Supplemented by course packet including relevant primary literature.



Expected Course Format:

The course and lab are divided into five themes that highlight different aspects of the biosphere within the larger Earth system. Lectures will introduce new concepts in biology, including ecology, evolutionary theory, and biogeochemical cycling, and practice identifying, reading, and analyzing primary literature. Labs will introduce basic techniques in biological environmental science, including data collection (from fieldwork, museums, and online databases), basic statistical analysis, and visualization/spatial analysis using a GIS. Labs will enable application of these techniques in both independently (e.g., through guided exercises and short writeups) and synthesized through a multi-week research project. Students will synthesize material by analyzing human impacts on the biosphere and other components of the Earth system in a research paper and final oral debate with classmates on consequences and strategies to mitigate these effects.

Expected Course Requirements and Grading:

In-Class Exercises, Presentations, and Homework Exercises	20%		Several homework or in-class assignments during the course of the semester.
Laboratory Exercise/Module Write-ups	20%		Each lab is accompanied by a written exercise or write-up.
Exams	20% tal 15%	to-	One midterm exam Final Exam (Comprehensive)
Participation	5%		Evaluated on participation in activities.
Research Paper and Presentation	20% tal 10%	to-	Research paper Participation in final debate/discussion on human impacts on biosphere.

Email / Internet Access Policy:

<u>All students are required to have a university e-mail account.</u> We will be using <u>UNM LEARN</u> as a course tool and it requires a UNM NetID account for access. Also, I will email updates/changes to the class and reminders or help for assignments during the duration of the class. You will need to use your UNM email (or forward that email) to get these announcements. YOU NEED TO USE <u>UNM LEARN</u> IN ORDER TO BE SUCCESSFUL IN THIS CLASS!

Attendance Policy:

Regular and punctual attendance is required. UNM *Pathfinder* policies apply, which in part means instructor drops based on non-attendance are possible. This policy applies regardless of the grading option you have chosen.

Accommodation Statement:

Accessibility Services (Mesa Vista Hall 2021, 277-3506) provides academic support to students who have disabilities. If you think you need alternative accessible formats for undertaking and completing coursework, you should contact this service right away to assure your needs are met in a timely manner. If you need local assistance in contacting Accessibility Services, see the Bachelor and Graduate Programs office.

DRAFT SCHEDULE OF TOPICS

Module 1 - Habitable planet and early life.

Lecture topics:

What is life?

Abiotic conditions necessary to produce/sustain life

Is the Earth unique?

Origins and early life – great oxygenation event

Issues of spatial and temporal scale

Lab topics:

Data collection and hypothesis testing in biological sciences

Origins and early life

Basic statistical analysis: central tendencies, probability/distributions, correlation, t-tests

Module 2 – Abiotic-biotic feedbacks and nutrient cycling.

Lecture topics:

Major biogeochemical cycles (C, N, P, some on Fe, S); including sources and sinks, residence times in reservoirs, historical and human perturbations to the system

Major environmental cycles and impact on life -

Atmosphere/cryosphere - greenhouse/icehouse cycles, Milankovich cycles

Lithosphere – plate tectonics, volcanism, dynamic topography

Hydrosphere – ocean oxygenation and circulation

Life's impact on the environment – build-up of oxygen (photosynthesis/respiration), biomineralization, bioturbation, weathering, erosion

Lab topics:

Stella biogeochemical modeling

GIS map of nutrient sources/sinks

Species' distribution change across Pleistocene climate changes (e.g., SERC exercise or ENM)

Biological weathering and/or bioturbation experiment

Module 3 – Genealogical Hierarchy: evolution, causes/consequences of major radiations and extinctions.

Lecture topics:

Genealogical individuals – genes, chromosomes, germ-line cells, organisms, demes, species, clades; linked through the transfer of information via reproduction

Taxonomy vs. phylogeny; homology

Species definitions (sexual vs. asexual reproduction)

Theory of evolution

Evolutionary mechanisms: mutation, genetic drift, gene flow, natural selection, sorting, etc.

Speciation – descent with modification, mate recognition, sympatic, allopatric (parapatric, peripatric); factors promoting and inhibiting

Extinction – local, regional, global, mass extinction; factors promoting or inhibiting

Lab topics:

Taxonomy and identification of homology

Morphological and genetic coding and phylogenetic analysis

Natural selection (e.g. moths selection simulation)

Population Genetics (e.g., population change by allele combo, "mating game")

Module 4 – Ecological Hierarchy: energy transfer in ecosystems, population and species ecology, biogeography.

Lecture topics:

Ecological individuals – proteins, somatic cells, organisms, avatars, ecosystems/communicates, biosphere/regional biota; linked through the transfer of matter and energy via interaction with the environment

autotrophy vs. heterotrophy; trophic levels, food chains/webs

metabolism

environmental niches

biotic interactions – competition, mutualism, commensalism, parasitism, etc

dispersal – home range vs. chance events, migration, vicariance

population ecology and life history traits

species ecology and biogeographic traits

impact of ecological hierarchy on evolution via natural selection

Lab topics:

Population ecology – predator/prey interactions, density dependence/carrying capacity, life history tables; (e.g., simulation experiments)

Species ecology – elevational vs. latitudinal diversity gradients, Earth's major biomes, niches and climate change;

Collecting data from online scientific databases for GIS visualization and spatial analysis (maybe ENM?); basic stats

Fieldtrip – ecosystem function and/or diversity counting; collect data for later GIS visualization and spatial analysis

Module 5 – Synthesis: Humans and the biosphere.

Lecture topics:

Challenges to biota today – climate change (ocean acidification), habitat degradation/loss, biotic invasions

Human impacts on biosphere – over-population, over-harvest, pollution, landscape changes, introduced species

Conservation biology – global biosphere connections, genetic bottlenecks, species extinction before discovery, effective habitat/wilderness protection, efficacy of restoration and re-wilding, policy/advocacy/ESA and other regulations

Lab topics:

Multi-week final project: Are we headed towards a 6th mass extinction?

In groups, review primary scientific literature, as well as policy decisions and debates on this issue; codify arguments for/against, consequences of various styles of action/inaction, etc.

Final lab: debate and "what should we do about it" policy discussion; final write-up on consequences of inaction on the biosphere and other Earth system components

PROPOSED SYLLABUS

COURSE: ENVS 323L: Water in the Earth System

Instructor: Email

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Spring XX

Course Description: Quantitative treatment of the global hydrologic cycle and links to the broader Earth System, including precipitation, evaportranspiration, infiltration, runoff and subsurface flow; global change and hydrology; catchment and hillslope hydrology; hydrologic system-ecosystem interactions; water chemistry evolution.

Pre-Requisites: ENVS 321L (Earth Materials) or EPS 304L (Sedimentology and Stratigraphy); MATH 162 (Calculus I); PHYC 160 (General Physics I).

Co-Requisites: MATH 163 (Calculus I)

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Analyze, critically interpret, and evaluate (both qualitatively and quantitatively) water and energy movement and related processes in the hydrologic cycle, including evaluation of precipitation, stream flow, and groundwater data using concepts of fluid dynamics.

Links to Programmatic Objectives P1, P2, P3, P4, P5, and P7, and Skills Objectives S1, S2, S3, S4, S5, S6, S7, S8, and S11.

Evaluate and construct simple numerical models of water movement in Earth Systems.

Links to Programmatic Objectives P1 and P4, and Skills Objectives S1, S2, S4, and S5.

Describe how a changing climate may impact water quantity and quality.

Links to Programmatic Objective P5 and Skills Objectives S1, S2, S3, S4, and S5.

Analyze chemical constituents in water and assess evolution of the water composition.

Links to Programmatic objectives P1, P3 and P4 and Skills Objectives S1, S3, S4, S5, S6, S8, S9, and S12.

Students will be able to employ common software for scientific work, such as MATLAB, word processing, spreadsheet programs, and presentation software.

Links to Programmatic Objectives P7 and Skills Objectives S1, S3, S4, S5, S7, S9 and S14.

Students will be able to search, read and report on literature related to Hydrology.

Links to Skills Objectives S14 and S16.

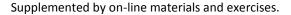
Students will be able to explain and describe some principles of ethics in the conduct and application of science, within the academic and professional arenas.

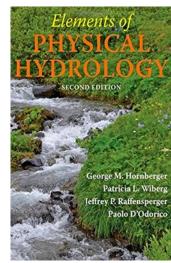
Links to Programmatic Objective P6.

Proposed Textbook and Supplies:

Elements of Physical Hydrology, 2nd Edition, 2014

by George M. Hornberger, Patricia L. Wiberg, Jeffrey P. Raffensperger, and Paolo D'Ordorico





Expected Course Format:

The lecture portion of the class will focus on theoretical aspects of physical hydrology, including dynamics of freshwater flow throughout the Earth system and statistical techniques for analyzing data. The lab portion of the class will involve hands-on data collection and analysis from a variety of field settings and from laboratory physical and computational experiments. The lab portion will also include an introduction to MATLAB programming.

Expected Course Requirements and Grading:

In-Class Exercise Write-ups and Homework Exercises	25%	Several homework assignments during the course of the semester.
Laboratory Exercise/Module Write- ups	25%	A final write-up will be required for each of the 4 lab modules.
Exams	20% total	Midterm Exam
	25%	Final Exam (Comprehensive)
Participation	5%	Evaluated on participation in activities.

Grading Scale: A+ (97-100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

- decimal portions will be rounded up if over 0.5, down if below 0.5











Email / Internet Access Policy:

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Attendance Policy:

Regular and punctual attendance is required. UNM *Pathfinder* policies apply, which in part means instructor drops based on non-attendance are possible. This policy applies regardless of the grading option you have chosen.

Accommodation Statement:

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Draft Schedule of Topics (subject to change):

1) Intro and Land-Atmosphere Interactions

Water balance

Precipitation

Evapotranspiration

Lab: Field sampling of hydrogeologic data

2) Principles of fluid dynamics

Forces on fluids

Fluid statics

Fluid dynamics

Energy Loss

Laminar and turbulent flows

LAB: Introduction to MATLAB (two sessions)

3) Open channel hydraulics

Specific energy

Discharge measurements using control structures

Bed roughness

Channel flow equations

Measuring flow in natural channels

LAB: Stream Gaging (possible field work)

LAB: Geochemical sampling and analysis of surface water

4) Catchment hydrology

The hydrograph

Flood routing

Flood frequency analysis

LAB: Muskingum Flood Routing and (or) Flow Duration Curves in MATLAB

5) Groundwater hydraulics

Darcy's Law

Steady groundwater flow

LAB: Groundwater Flow Model ("Antfarm")

6) Groundwater hydrology

Flow nets

Regional groundwater flow

Well hydrographs

LAB: Groundwater Flow Models in MATLAB

7) Water Chemistry in Natural Systems

Geochemical sampling

Geochemical evolution of surface and groundwaters

LAB: Geochemical modeling and sampling labs (two labs)

LAB: Contaminant Transport lab (MATLAB)

8) Water in the unsaturated zone

Forces

Capillary pressure head and the moisture characteristic

Vertical water movement

Equilibrium profile above a water table

Infiltration

Evapotranspiration in the unsaturated zone

LAB: Soil Moisture and Vadose Zone measurements

LAB: Numerical analysis of 1D Vadose zone flow

9) Catchment hydrology

Streamflow hydrographs

Runoff separation

Catchment models

LAB: Synthesis - post-fire flooding

COURSE: ENVS 324: Earth's Climatic Environment

Instructor: Email

Office Location: Office Phone:
Office Hours: Course Credits: 3

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Fall XX

Course Description: In this course, you will gain a basic process-based understanding of Earth's climate system. We will practice physics-based problem-solving skills and apply scientific concepts related to understanding the Earth's climatic system. We will evaluate the magnitude and mechanisms of observed and projected climate change, and discuss issues related to the current climate (e.g., El Niño, drought, global warming, etc).

Pre-Requisites: ENVS 323L; MATH 163 (Calculus II); PHYC 160 (General Physics I)

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Identify the magnitude and mechanisms of observed and projected climate change through analysis of climate data and climate models

Links to Programmatic Learning Outcome P5 and Skill Objectives S2, S3, S5

Solve quantitative problems describing flows of energy, water and wind through the climate system using calculus and basic physical principles

Links to Programmatic Learning Outcome P1, and Skill Objectives S1, S4

Describe and interpret current issues in climate science (Global warming, Drought, El Nino) using physical principles

Links to Programmatic Learning Outcome P6 and Skill Objectives S16

Define central concepts in atmospheric science and use these concepts to diagnose large-scale physical processes that determine atmospheric temperature, humidity, wind and precipitation

Links to Programmatic Learning Outcome P7 and Skill Objectives S1, S4

Be able to define and explain mechanisms that drive atmospheric water and energy cycles

Links to Programmatic Learning Outcome P4 and Skill Objectives S1

Proposed Textbook and Supplies:

The Atmosphere and Ocean: A Physical Introduction, Third Edition, 2012

by Neil C. Wells

IPCC, Summary for Policymakers, 5th Assessment Report

Supplemented by online course materials.





Expected Course Format:

The course will be conducted using a combination of lecture and homework exercises. Work will include:

Readings from the texts (plus occasional handouts from the instructor)

Homework assigments:

Usually assigned on Friday, due at 11 am the following Wednesday

Exams:

3 midterms, 1 final exam, in class.

Expected Course Requirements and Grading:

Homework Exercises	40%	Several homework assignments during the course of the semester.
Exams	35% total	Midterm exams (3 exams during semester)
	25%	Final Exam (Comprehensive)

Grading Scale: A+ (97-100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

Email / Internet Access Policy:

<u>All students are required to have a university e-mail account.</u> We will be using <u>UNM LEARN</u> as a course tool and it requires a UNM NetID account for access. Also, I will email updates/changes to the class and reminders or help for assignments during the duration of the class. You will need to use your UNM email (or forward that email) to get these announcements. YOU NEED TO USE <u>UNM LEARN</u> IN ORDER TO BE SUCCESSFUL IN THIS CLASS!

Accommodation Statement:

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⁻ decimal portions will be rounded up if over 0.5, down if below 0.5

^{**} I reserve the right to modify the strict point system for grading.

Draft Schedule of Topics and Course Outline:

week#	<u>topic</u>	chapter from text
1	Introduction / Energy in the Climate System	1
2	Solar Energy and its Variability	1
3	Structure of Ocean and Atmosphere	2
4	Radiation, Temperature and Stability	3
5	Review / Midterm / Intro to Water in the Atmosphere Midterm #1 (Ch. 1-3)	
6	Clouds and Precipitation	4
7	Global Energy and Water Budgets	5
8	Surface Energy Budgets / Vegetation, Topography and Climate	5
9	Review / Midterm / Intro to Winds and Currents Midterm #2 (Ch. 4-5)	
10	Winds and Currents 6	
11	Ocean/Atmosphere Interaction and Climate Dynamics	7
12	Fully Coupled Climate System: Atmosphere, Land, Ocean, Cryosphere	8
13	Review / Midterm / Intro to Climate Change Midterm #3 (Ch. 6-8)	10 / IPCC
14	Climate Variability and Change in the Last 2000 Years	10 / IPCC
15	Future Climate Change Projections	IPCC

COURSE: ENVS 430L: Advanced Environmental Science

Instructor: Email

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Spring XX

Course Description: The course is designed as a capstone experience for ENVS majors and includes work in the field, laboratory, and classroom. We will divide into groups and focus research on different projects related to Environmental Science.

Pre-Requisites: ENVS 324

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Students will be able to search, read, and synthesize literature related to Environmental Science, and be able to present this material in a written and oral format.

Links to Programmatic Objectives P7 and Skills Objectives S14, S15, S16.

Students will be able to apply quantitative tools and models to address complex problems in Environmental Science. Links to Programmatic Objectives P4 and P7, and Skills Objectives S1-S7.

Students will be able to apply common tools used in Environmental Science, such as interpretation of maps, graphs, figures, and box models to enable analysis and synthesis of data collected in the field.

Links to Programmatic objectives P2, P3, and P7 and Skills Objectives S1, S8, S9, S10, S11, S12 and S13.

Students will be able to employ common software for scientific work, such as word processing, spreadsheet programs, and presentation software.

Links to Skills Objectives S3, S10 and S15.

Students will be able to devise and execute an appropriate task plan to solve a complex problem in Environmental Science.

Links to Programmatic Objective P7.

Students will be able to apply principles of ethics in the conduct and application of science, within the academic and professional arenas.

Links to Programmatic Objective P6.

Proposed Textbook and Supplies:

No textbook required. All materials will be available on UNM Learn or handed out.

Useful resources:

Introduction to Environmental Engineering, by GM Masters

Applied Hydrogeology, by CW Fetter

Global Environment: Water, Air and Geochemical Cycles, by Berner and Berner

Energy: Perspectives, Problems and Prospects, by MB McElroy

Selected USGS, other Federal reports, NMED, and NMB regional studies

Expected Course Format:

The class meets twice weekly in the classroom for lectures, presentations by students in the course, as well as visiting environmental professionals. Class periods are also used for project introduction, progress reports, and exercise review. Lab periods (one afternoon per week) are utilized for project team work, experiential learning activities, including trips to locations in the Albuquerque area for field exercises or adjourn to analytical laboratories on campus for hands-on exercises working on materials we have collected in the field. Exercises will often be performed by teams, but students are responsible for turning in their own, individual materials and contributing appropriately to team efforts. Other assignments (some requiring reading or web access) will be worked on either in groups or independently (as specified). Materials are turned in weekly. There will be three all-day field trips. Attendance on 2 of the 3 is mandatory.

Expected Course Requirements and Grading:

Graded aspects of the course consist of class participation, weekly exercises, written materials, and oral presentations.

Short presentations	25%
Homework assignments and short papers	25%
Participation	15%
Final Project	35%

Grading Scale: A+ (97-100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

- decimal portions will be rounded up if over 0.5, down if below 0.5

Email / Internet Access Policy:

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Attendance Policy:

The class is participatory, and attendance is required unless you have discussed this with the instructor and we have a mutual agreement BEFOREHAND.

Accommodation Statement:

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Draft Course Themes:

Write to the Top! You will write short items as well as long. You should write in a professional style unless otherwise indicated.

Am I making myself clear?: You will speak/present to the class.

Walk the walk and talk the talk: You will make and record measurements and observations in a professional manner.

What's going on?: Project-based learning. Background, measurements, analyze, interpret, model, summarize, present.

Professional Development: Learning the business and ethics of Environmental Science. We will have invited speakers as part

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Minor Study Requirements

Minor in Environmental Science

A total of at least 18 credit hours distributed as follows:

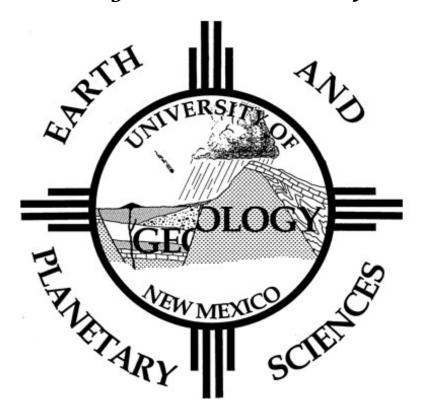
- 1. ENVS 101 & 102L (or EPS 101 & 105L), and ENVS 320L.
- 2. Plus at least 10 additional credit hours selected from ENVS 315, 321L, 322L, 323L, 324, or 430L; EPS 201L, 251, 333, 352, 410, 415, 439, 455L, 462, 476, 481L, or 485L; GEOG 381L; or other approved courses. Only one course numbered 299 or below may count toward this requirement.



THE UNIVERSITY of NEW MEXICO

COLLEGE of ARTS & SCIENCES

Department of Earth & Planetary Sciences



Environmental Science Curriculum Redesign

proposed for 2016-17 academic year

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- 5. Faculty Workload and Budgetary Impacts
- 6. Proposed new ENVS Major and Minor requirements
- 7. B.S. in Environmental Science: College Algebra Ready Four Year Roadmap
- 8. B.S. in Environmental Science: Learning Outcomes Matrix
- 9. Proposed Syllabi

ENVS 315	Statistics and Data Analysis (Replaces EPS 428 & 433)
ENVS 320L	Environmental Systems (Replaces ENVS 330)
ENVS 321L	Earth Materials and Critical Zone Geology
ENVS 322L	Life and the Earth System
ENVS 323L	Water in the Earth System
ENVS 324	Earth's Climatic Environment (Replaces EPS 436)
ENVS 430L	Advanced Environmental Science (lab officially added)

Assembled by:

Joseph Galewsky Gary Weissmann David Gutzler Brian Vineyard

February 2015 to September 2015

INTRODUCTION

The Earth & Planetary Sciences (EPS) Department proposes a major revision to its B.S. degree program in Environmental Science (ENVS), with corresponding revisions to the ENVS undergraduate minor. The ENVS major was initiated in 2000 within the EPS Department to complement its eponymous B.S. and B.A. majors that emphasize field geology. ENVS was designed to "incorporate quantitative studies of the various interactions between the solid earth, oceans, atmosphere and biological processes taking place" within the whole Earth system. Since the implementation of ENVS, the degree program has grown to numerical parity with the EPS B.S. program: our most recent numbers indicate 195 declared ENVS majors and 148 declared EPS majors. ENVS offers one of the most popular physical science class in the A&S core curriculum (ENVS 101, The Blue Planet), which enrolled 1459 students in AY 2014-15. As we had hoped, ENVS graduates have moved into a very broad spectrum of career activities, ranging from graduate studies in the "hard sciences" to professional pursuits in the field of environmental sciences or in other areas, such as business, law and journalism. The ENVS curriculum is a success.

ENVS was developed 15 years ago with no new resources from the college. Existing courses were organized into the best curriculum we could cobble together, using an extensive list of groups of classes to loosely organize a course of study. The EPS department's instructional resources were stretched to accommodate just two new classes that formed the only upper division requirements for the new major. Given the success of the major, the addition of new faculty with degree-related expertise within the department, and the experience we have gained with the major over the past 15 years, we are now in a position to undertake a major revision to address aspects of the ENVS curriculum that need augmentation. We propose to develop a much firmer, objectives-driven sequence of required upper division courses that will explicitly carry the ENVS prefix in the UNM course catalog. Several of these courses are newly developed to serve ENVS majors; several others are adaptations of existing, popular EPS upper division courses now taken by most ENVS majors. We propose relatively modest changes to the ENVS minor that are consistent with the redesign of the major.

From the Student and Advisement perspective, this new curriculum will greatly help with long term degree planning and, as a related consequence, likely shorten student's average time to completion. Currently, with the structure of our Environmental Science curriculum, students know that they are required to complete 30 hours total from the seven different groups, but the sub-requirement of at least 6 hours within 4 different groups often proves to be very challenging to plan for past the current semester. The eventual selections made by many students, based largely on only the remaining groups needed, and offerings available, can lead to a lack of full exposure to what this new curriculum considers core concepts of this degree. This currently existing shortcoming is being rectified with the revised structure of our new curriculum designed to closely match our current Earth & Planetary Sciences degree format in that it has a more extensive required degree core sequence, which is composed of courses specifically offered in designated terms. We are however still asking for the completion of 12 additional hours of major electives (the same as EPS), which maintains the added benefit our degrees possesses by allowing students to further study topics of added personal interest to them beyond the core concepts, and fully utilize the vast knowledge and experience provided by the faculty. Furthermore, this new degree core structure will also allow ENVS majors the extensive cohort style learning benefits currently available to all EPS majors.

Faculty Workload and Budgetary Impacts

In order to cover the new classes, the EPS faculty members have had several detailed discussions about how to arrange our regular teaching rotations. Recently hired faculty members, Corrine Myers and Lindsay Lowe Worthington, have already committed to teaching the new ENVS 322L and ENVS321L courses, respectively, as part of their regular teaching rotations. In order to free up additional faculty time to support the new curriculum, we propose to sunset the following classes:

ENVS 330 (Environmental Systems), replaced by ENVS 320L (Environmental Systems).

EPS 428 (Applied Mathematics for Earth and Environmental Sciences) and

EPS 433 (Statistics and Data Analysis), replaced by ENVS 315 (Statistics and Data Analysis)

EPS 436 (Climate Dynamics), replaced by ENVS 324 (Earth's Climatic Environment)

The EPS faculty have identified current faculty members who will teach the new courses, no new faculty lines are required to cover the new curriculum.

In order to support the new laboratory components of the curriculum, we are requesting an additional 2 full time (20 hr/week) teaching assistants. This will allow us to support the new labs without compromising our current introductory lab offerings for non-majors, which are currently already oversubscribed. If no new TA resources are available, the new curriculum may still be supported by reducing the number of introductory labs in order to support our ENVS majors.

Bachelor of Science in Environmental Science

Required Courses

ENVS 101, 102L (or EPS 101, 105L), 315, 320L, 321L, 322L, 323L, 324, 430L, EPS 401 & 490 and 12 additional credit hours in Earth and Planetary Sciences (excluding 493 and 495) or other approved courses (of which no more than 4 credit hours may be below 300).

(Total = 44 credit hours)

Supporting Math/Science Required Courses

CHEM 121/123L, 122/124L; MATH 162, 163; PHYC 160, 161; BIOL 123/124L (or higher), CS 151L (or 152L), and 3 additional credit hours from: Chemistry (above 124L), Mathematics (above 163), Physics (above 161), Biology (above 124L), Astronomy (270 or above) or, with permission, from selected Geography or Engineering courses. An additional advanced math class selected from: 264, 311, 314, or 316 is strongly encouraged.

(Total = 32 credit hours)

ENGL 219 or 220 or 290 is required.

No minor study is required for students completing the B.S. program, although an optional minor or second major may be selected.

Minor Study Requirements

Minor in Environmental Science

A total of at least 18 credit hours distributed as follows:

1. ENVS 101 & 102L (or EPS 101 & 105L), and ENVS 320L.

Plus at least 10 additional credit hours selected from ENVS 315, 321L, 322L, 323L, 324, or 430L; EPS 201L, 251, 333, 352, 410, 415, 439, 455L, 462, 476, 481L, or 485L; GEOG 381L; or other approved courses. Only one course numbered 299 or below may count toward this requirement.

BS Environmental Science College Algebra Ready - Four Year Road Map

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			Course Subject and Title
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	Minor	or 2nd	Major
			Major
		Credit	Hrs.
			e

Course Subject and Title	Hrs.	Hrs. Major Major Core Div. Grade	Major	Core	Div.	Grade	Notes	Course Subject and Title	Ĭ
Semester One:								Semester Two:	
ENVS 101/102L or EPS 101/105L	4	4		4		C		CHEM 121/123L	4
BIOL 123/124L	4	4				C		CS 151L or 152L	m
MATH 121	3			3		C		MATH 153	2
1st English Composition	3			3		С		2nd English Composition	3
Freshman Academic Choice	3					CR			
Total:	17	8	0 10	10	0			Total:	1
Advisement: How to use the Degree Audit	dit					(anyti	(anytime after the 10th week)	Advisement: Enhanced Degree Audit skills	cills

Semester Three:								Sem
ENVS 320L	4	4			4	С		ENV
MATH 162	4	4				С		MAT
PHYC 160	3	3				С		PHY
CHEM 122/124L	4	4				С		ENG
								Seco
Total	15	15	0	0	4			Tota
Transferred into the College of Arts & Sciences	iences					(ou	(once semester grades are in)	Advi

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Semester Five:	ENVS 315	ENVS 322L	ENVS 322L ENVS Elective	INVS 322L INVS Elective
			(1)	~

Visit Career Services

Semester Seven:							
ENVS 324	Э	3			3	J	
ENVS Elective	3	3			3	С	
Core Requirement	3			3		С	C See List
Core Requirement	3			3		С	C See List
Upper-Division Elective	3				3	S	CR EPS 493 Recommended
Total	15	9	0	9	6		

(within the 4th to 12th week))					ntation	Advisement: Attend Departmental Orientation
		4	9	0	14	17	Total
	C		3			3	Second Language
	C		3		3	3	ENGL 219 or 220
	C				3	3	PHYC 161
	C				4	4	MATH 163
	С	4			4	4	ENVS 321L
							Semester Four:

Semester Six:							
ENVS 323L	4	4			4	J	
ENVS Elective	3	3			3	С	
ENVS Elective	3	3			3	С	
Core Requirement	3			3		С	C See List
Core Requirement	3			3		J	C See List
Total	16	16 10	0	9	10		
Complete Graduation Workshop & Apply for degree	for deg	ree					(after 4th week)
Advisement: Departmental Check-In							

Semester Eight:							
ENVS 430L	4	4			4	С	
EPS 401	1	1			1	С	
EPS 490	1	1			1	С	
Upper-Division Elective	3				3	CR	CR EPS 495 Recommended
Additional hours may be needed this term for scholarship or discounted tuition requirements	m for sc	holarsh	ip or dis	counted	l tuition	require	ments
Total	6	9	0	0	6		
Advisement: Senior Visit							
VISIL Graduation Fair							

120

Degree Total

49

38

79

*No minor study is required for students completing the B.S. program, although an optional minor or second major may be selected.

Advisement: Departmental Check-In / Senior Visit

					ENVS CORE CLASSE				
Learning Outcome/objective	The Blue Planet (ENVS 101)	The Blue Planet Lab (ENVS 102L)	ENVS 320L (4): Environmental Systems (*formerly ENVS 330)	Spring ENVS 321L (4): Earth Materials / Critical Zone	Fall ENVS 322L (4): Life and the Earth Systems	Fall ENVS 315 Statistics in Earth Sciences	Spring ENVS 323L (4): Water in the Earth System	Fall ENVS 324 (3): Earth's Climatjc Environment	ENVS 430L: Advanced Environmental Systems / Environmental Field Methods
Pre-Requisites	3 None	1	4 ENVS 101/102 OR EPS 101/105L; MATH 121	4 ENVS 320L; CHEM 121/122L; MATH 150 OR MATH 153	4 ENVS 321L; MATH 150 OR MATH 153; BIOL 123/124L	3	MATH 162; PHYC 160; CS151L; ENVS 315	3 ENVS323L; MATH 163; PHYC 160	4 ENVS 324
Co-Requisites CLASSES YOU SHOULD BE TAKING	None MATH 121 or MATH 150 or MATH 153; CHEM 121/123L	MATH 121 OR MATH 150 OR MATH 153; CHEM 121/123L	CHEM 122/124L	MATH 162	PHYC 160	MATH 162	MATH 163 MATH 163		
	Staff		Weissmann Scuderi	Fischer Worthington-Lowe	Myers Scuderi	Gutzler Galewsky	Weissmann Galewsky	Gutzler Fawcett	Crossey
P1. Students will be able to evaluate conservation			Schmandt	Meyer		Myers			
of mass, momentum and energy transformations in Earth's Systems	Introduced	Introduced	Practiced	Practiced	Practiced		Practiced	Mastered - Evaluated	
P2. Students will be able to analyze the role of Earth Materials (rocks and minerals) and Earth Structure (plate tectonics) in Earth Systems.	Introduced	Introduced	Practiced	Practiced	Practiced		Practiced		Mastered - Evaluated
P3. Students will be able to evaluate a landscape to infer active and past processes and current and past climates.			Introduced	Practiced			Practiced		Mastered - Evaluated
P4. Students will be able to evaluate interactions between different spheres (Atmosphere, hydrosphere, biosphere, geosphere)	Introduced	Introduced	Practiced	Practiced	Practiced		Practiced	Practiced	Mastered - Evaluated
P5. Students will be able to evaluate atmospheric processes and impacts of global climate change on atmospheric systems.	Introduced	Introduced	Practiced	Practiced	Practiced		Practiced	Mastered - Evaluated	
P6. Students will be able to evaluate case studies on environmental and scientific ethics and be able to define ethical behavior in science.			Introduced	Practiced	Practiced	Practiced	Practiced	Practiced	Mastered - Evaluated
P7. Students will be able to apply the scientific method to analyze a problem in Environmental Sciences.	Introduced	Introduced	Practiced	Practiced	Practiced	Practiced	Practiced	Practiced	Mastered - Evaluated
P8. Students will be able to analyze the impact of the biosphere, through the porcess of evolution and ecology, on the Earth System.	Introduced	Introduced	Practiced		Practiced/ Mastered - Evalu-				Mastered - Evaluated
Skills:									
Computational Skills:									
S1. Students will be able to apply algerbraic equations to solve Environmental Science problems.	Introduced	Introduced	Introduced	Practiced		Practiced	Practiced	Practiced	Mastered - Evaluated
S2. Students will be able to apply basic statistics to analyze a data set.	Introduced	Introduced	Introduced	Practiced	Practiced	Practiced/ Mastered - Evalu-	Practiced	Practiced	Practiced
S3. Students will be able to evaluate and generate data for use in time series and geospatial analysis.			Introduced		Practiced	Practiced	Practiced	Practiced	Mastered - Evaluated
S4. Students will be able to solve derivatives and integrals as related to Environmental Sciences, and evaluate differential equations analytically or numerically.			Introduced	Practiced			Practiced	Practiced	Mastered - Evaluated
S5. Students will be able to write equations and evaluate fluxes in an Earth system using finite difference solutions.			Introduced				Practiced		Mastered - Evaluated
S6. Students will be able to apply and evaluate geochemical reactions in a natural system using geochemical modeling software.			Introduced	Practiced			Practiced		Mastered - Evaluated
S7. Students will be able to demonstrate proficiency in using 3D analysis and visualization software.				Introduced			Practiced		Mastered - Evaluated
GIS skills: S8. Students will be able to download data from a reliable source and create relevant maps using the data.			Introduced		Practiced	Practiced	Practiced	Practiced	Mastered - Evaluated
S9. Students will be able to place spatial data into a GIS database.			Introduced		Practiced	Practiced	Practiced		Mastered - Evaluated
S10. Students will be able to make measurements of slope, aspect, and gradients using GIS tools, and they will be able to create derivative maps (e.g., drainage basins delineation, etc).		Introduced	Introduced			Practiced	Practiced		Mastered - Evaluated
Field methods: S11. Students will be able to produce a detailed map of a study site and place this into a GIS format.			Introduced	ı			Practiced		Mastered - Evaluated
S12. Students will be able to follow protocols for acquiring field data (e.g., geochemical protocols, water level sampling)		Introduced	Introduced	Practiced	Practiced		Practiced		Mastered - Evaluated
Geochemistry skills: 13. Students will be able to apply concepts in interexhange equilibruim, thermodynamics, redox, solution chemistry, and organic chemistry to geochemical problems.			Introduced	Practiced		1	Practiced		Mastered - Evaluated
Communication and writing skills S14. Students will be able to write a clear and concise report using proper grammar and spelling.			Introduced	Practiced	Practiced		Practiced	Practiced	Mastered - Evaluated
S15. Students will be able to present material in a concise oral or poster format.			Introduced		Practiced				Mastered - Evaluated
S16. Students will be able to find and synthesize published works (library research)			Introduced		Practiced		Practiced	Practiced	Mastered - Evaluated
** outcomes P1-P7 (top of list	t) should he asse	ssible for the prop	rammatic assessi	ment					

^{**} outcomes P1-P7 (top of list) should be assessible for the programmatic assessment

Proposed New Course Syllabi

ENVS 315	Statistics and Data Analysis (Replaces EPS 428 & 433)
ENVS 320L	Environmental Systems (Replaces ENVS 330)
ENVS 321L	Earth Materials and Critical Zone Geology
ENVS 322L	Life and the Earth System
ENVS 323L	Water in the Earth System
ENVS 324	Earth's Climatic Environment (Replaces EPS 436)
ENVS 430L	Advanced Environmental Science (lab officially added)

COURSE: ENVS 315: Statistics in Earth Sciences

Instructor: Email

Office Location:Office Phone:Office Hours:Course Credits: 3

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Fall XX

Course Description: Statistical analysis plays an important role in understanding Earth Systems. In this class we will explore basic statistical representations of earth science data, matrix algebra, and multivariate data analysis and Fourier analysis. You will gain a basic understanding of probability and statistics, with particular application to Earth Science data analysis. You will conduct this work in the Excel software environment, thus becoming more familiar with spreadsheet-based analysis. You will also explore ethical data analysis practices.

Pre-Requisites: None

Co-Requisites: MATH 162

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

1. Quantify uncertainties using basic principles of probability, and assess the statistical significance of calculations based on limited samples of data

[Learning Outcomes P6, P7] [Skill Outcome S2]

2. Apply basic statistics to analyze a data set

[Learning Outcomes P6, P7] [Skill Outcome S2, S8]

3. Evaluate time series quantitatively using standard data analysis techniques

[Learning Outcome P7] [Skill Outcome S3, S8]

4. Assess spatial variance and understand statistical terminology associated with geographic information systems

[Learning Outcome P7] [Skill Outcomes S8, S9, S10]

Proposed Textbook and Supplies:

Required: Statistics and Data Analysis in Geology,

3rd Edition, 2002

by John C. Davis (Wiley)

Recommended: A Statistics Cookbook (Schaum's outline is a venerable and inexpensive one)

Other books:

Data Analysis in the Earth Sciences, G. Middleton (Prentice Hall, 2000)

Introduction to Linear Algebra in Geology, J. Ferguson (Chapman & Hall, 1994)

Mathematics: A simple tool for geologists, D. Waltham (Chapman & Hall, 1994)

Fourier Analysis of Time Series: An Introduction, P. Bloomfield (Wiley, 2000)

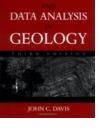
Spectral Analysis in Geophysics, M. Båth (Elsevier, 1978)

Statistical Methods in the Atmospheric Sciences, D. Wilks (Academic, 1995)

Statistical Analysis in Climate Research, von Storch and Zwiers (Cambridge, 1999)

Matlab Recipes for Earth Sciences, M.H. Trauth (Springer 2007)

Spatiotemporal Data Analysis, G. Eschel (Princeton, 2012)



STATISTICS

Expected Course Format:

The course will be conducted using a combination of lecture and homework exercises. Work will include:

Readings from the Davis textbook, plus supplemental handouts from the instructor

Homework assigments:

Six homework sets will be assigned, as listed on the following course schedule pages. The homework will involve both hand calculations and spreadsheet calculations using Excel.

...no credit for homework turned in late!

Exams:

1 midterm, 1 final exam, in class on the dates shown on the course outline that follows.

Expected Course Requirements and Grading:

Homework Exercises	40%
Midterm Exam	25%
Final Exam	35%

Grading Scale: A+ (97 -100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

- decimal portions will be rounded up if over 0.5, down if below 0.5

** I reserve the right to modify the strict point system for grading.

Email / Internet Access Policy:

<u>All students are required to have a university e-mail account.</u> We will be using <u>UNM LEARN</u> as a course tool and it requires a UNM NetID account for access. Also, I will email updates/changes to the class and reminders or help for assignments during the duration of the class. You will need to use your UNM email (or forward that email) to get these announcements. YOU NEED TO USE <u>UNM LEARN</u> IN ORDER TO BE SUCCESSFUL IN THIS CLASS!

Accommodation Statement:

Accessibility Services (Mesa Vista Hall 2021, 277-3506) provides academic support to students who have disabilities. If you think you need alternative accessible formats for undertaking and completing coursework, you should contact this service right away to assure your needs are met in a timely manner. If you need local assistance in contacting Accessibility Services, see the Bachelor and Graduate Programs office. I will make every effort to work things out with you if (and only if) you give me advance notice.

Course Outline: Lecture schedule is approximate; deadlines and exam dates are fixed

week	dates	topic [1	og/Davis 3ed]	<u>coursework</u>
1		Introduction to Probability and Statistics (Ch 1, 2)		
	M	Introduction to probability	[1-24]	
	W	Discussion: Introduction to Excel		
	F	no class on this day		
2		Probability (Ch 2)		
	M	MLK holiday; no class		
	W	Discussion: Laws of probability; Frequentist vs Bayesian app	roaches	HW 1 posted
	F	Distributions and random variables	[25-33]	
3		Summary statistics (Ch 2)		
	M	Measures of central tendency and spread	[34-39]	
	W	Discussion: HW1; estimates of average, spread, and correlation	on	
	F	Multivariate analysis: Covariance and correlation	[40-50]	HW 1 due
4		Assessment of confidence and significance (Ch 2)		
	M	Normal distributions; Central Limits Theorem	[50-59]	
	W	Discussion: significance tests, significant digits, and random	numbers	HW2 posted
	F	Null hypotheses; significance tests; confidence intervals	[60-74]	
5		Analysis of variance; non-normally distributed data (Ch 2))	
	M	F-distribution; Analysis of variance (ANOVA)	[75-92]	
	W	Discussion: HW2; ANOVA		
	F	c2, Gamma distributions; non-normally distributed data	[92-107]	HW 2 due
6		Sequences of data; time series analysis (Ch 4)		
	M	Sequences & runs of data; missing data;	[159-191]	
	W	Discussion: Intro to time series analysis; Poisson distribution		HW 3 posted
	F	Least-squares curve fitting	[191-227]	
7		Linear regression (Ch 4, 6)		
	M	Linear regression	[191-227]	
	W	Discussion: HW3; regression		
	F	Multiple regression	[461-470]	HW 3 due
8		Review / Midterm exam		
	M	makeup/catchup		
	W	Discussion: review for midterm exam		
	F	Midterm exam in class		exam
	Spring E	Break		
9	3.6	Time series: time domain vs frequency domain analysis	ra 12 2	
	M	Autocorrelation, autocovariance; intro to Fourier series	[243-268]	-
	W	Discussion: discuss midterm exam; basic trigonometry review		HW 4 posted
	F	Spectral analysis: Fourier's theorem	[268-277]	
10		Introduction to spectral analysis (Ch 4)		
	M	Power spectrum	[275-277]	
	W	Discussion: HW4; periodograms, power spectra		
	F	Smoothing: tradeoff between resolution & confidence	handout	HW 4 due

11		Spectral analysis - continued		
	M	Significance of spectral peaks	handout	
	W	Discussion: spectral smoothing; assessment of spectral peaks		HW 5 posted
	F	Cross-spectral analysis	handout	
12		Introduction to eigenanalysis (Ch 3)		
	M	Matrix algebra, determinants, inverse	[123-141]	
	W	Discussion: HW5; systems of linear equations		
	F	Introduction to eigenvectors	[141-153]	HW 5 due
13		Eigenanalysis - continued (Ch 3, 6)		
	M	Principal components analysis; eigenvectors	[509-525]	
	W	Discussion: EOFs and PCs		HW 6 posted
	F	Principal components analysis, part II	[509-525]	
14		Spatial Analysis (Ch 5)		
	M	Directional and spherical data	[316-341]	
	W	Discussion: HW6		
	F	Contouring / Trend surfaces	[380-407]	HW 6 due
15		Spatial Analysis - continued		
	M	Introductory concepts of kriging	[416-428]	
	W	Discussion: return HW6, summary of temporal and spatial ar	nalysis	
	F	review for final exam		

Final Exam (according to final exam schedule)

COURSE: ENVS 320L: Environmental Systems (Replaces ENVS 330)

Instructor: Emai

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Fall XX

Course Description: Analysis of environmental science data focusing on local water, soil, atmospheric, and bedrock systems and comparisons to analogous systems around the world. In-class exercises, outdoor data collection trips, and laboratory exercises provide hands-on experience with collection of physical and chemical data, mapping, data base development, and basic statistical and geospatial analysis.

Pre-Requisites: ENVS 101 (The Blue Planet) or EPS 101 (How the Earth Works); ENVS 102L (The Blue Planet Lab) or EPS 105L (How the Earth Works Lab); MATH 121 (College Algebra)

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Students will be able to describe the general characteristics of each of the principal components of the Earth System (geosphere, hydrosphere, atmosphere, and biosphere).

Links to Programmatic Objectives P1, P2, and P4.

Students will be able to describe and conceptually model the conservation of mass, momentum, and energy in Earth Systems, and students will be able to analyze fluxes of energy and key elements and compounds, including water, carbon, and nitrogen (biogeochemical cycles), between the principal components of the Earth System through use of box models, simple Excel spreadsheets, and graphing.

Links to Programmatic Objectives P1, P2, P4, and P5 and Skills Objectives S1, S2, S5, and S6.

Students will be able to apply simple (algebraic-based) mathematical models to define Earth system processes. Students will begin to use calculus principles used to describe Earth system processes.

Links to Skills Objective S1, S4.

Students will be able to apply common tools used in Environmental Science, such as interpretation of maaps, graphs, figures, and box models to enable analysis and synthesis of data collected in the field.

Links to Programmatic objectives P3, P6 and P7 and Skills Objectives S1, S8, S9, S10, S11, S12 and S13.

Students will be able to employ common software for scientific work, such as word processing, spreadsheet programs, and presentation software.

Links to Skills Objectives S3, S10 and S15.

Students will be able to search, read and report on literature related to Environmental Science, and students will be able to present this material in a concise manner (specifically in a poster presentation).

Links to Skills Objectives S14, S15, and S16.

Students will be able to explain and describe some principles of ethics in the conduct and application of science, within the academic and professional arenas.

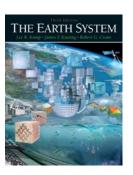
O Links to Programmatic Objective P6.

Proposed Textbook and Supplies:

The Earth System, Third Edition, 2009

by Lee R. Kump, James F. Kasting, and Robert G. Crane

Supplemented by course pack tailored to modules.



Expected Course Format:

The course and laboratory exercises are organized into 4 modules with a required data collection field trip during each module as part of the lab component. Each module follows a similar sequence beginning with a brief introduction to the relevant local environment, the questions to be investigated, and development of a data collection plan. Once data are collected different principles will be introduced at the beginning of the week progressing toward application of those principles to newly collected data and public data by the end of the week. Frequent (1-2 per week) in-class exercises will focus on quantitative analysis drawing from basic statistics, mechanics, chemistry, and geospatial analysis. The lecture portion of the course will incorporate data collected in the lab course and place the local environmental systems in a global and temporally evolving perspective. Additionally, the lecture portion will include exercises related to application of principles of conservation of mass, momentum, and energy at various scales (from global to local scales) and feedback loops.



Expected Course Requirements and Grading:

In-Class Exercise Write-ups and Homework Exercises	20%	Several homework assignments during the course of the semester.
Laboratory Exercise/Module Write- ups	15%	A final write-up will be required for each of the 4 lab modules.
Exams	25% total	Two midterm exams
	15%	Final Exam (Comprehensive)
Participation	5%	Evaluated on participation in activities.
Final Project	20%	Poster presentation and related assignments.

Grading Scale: A+ (97 -100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

Email / Internet Access Policy:

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Attendance Policy:

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Accommodation Statement:

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Draft Schedule of Topics:

Module 1 – Physical aspects of surface water transport and riparian environments.

Lecture portion topics:

Systems science introduction

Hydrologic cycle exercises and box models;

Basics of feedback loops;

Basic statistics primer exercises;

Measurement of surface water discharge;

Riparian ecology; and

General GIS applications and computer management.

Lab portion:

Field notebook methods;

Field data collection and observations at the Bosque;

Tree height, density, and diameter measurements;

GPS waypoint collection techniques.

Stream gaging exercise (field trip to small local stream for gaging);

Application of basic statistics to field data (distributions, central estimators, variance, etc.);

Data downloading from governmental agency sources (e.g., stream gage data and aerial photographs; and Introduction to Geographic Information Systems (GIS) software.

Module 2 – Sandia Crest vegetation change and climate.

Lecture portion topics:

Global energy balance;

Atmospheric circulation patterns and relationship to NM climate;

Atmospheric processes and weather (e.g., orographic effects);

Local insolation calculations; and

Climate variability.

Lab portion topics:

Basic orienteering with map and compass;

Temperature data collection as functions of elevation and time (download data from sensors placed in the field).

Field observations of vegetation relationships relative to slope and aspect in the Sandias, and observations of tree density and mortality.

Field observations of soil textures along the Rio Grande to Sandia Crest transect (to be used in Module 3).

Remote sensing exercises to evaluate vegetation distributions from Landsat data (e.g., NDVI and EVI), change in vegetation, and influence of insolation on vegetation distribution (modeled using tools in ArcGIS)

Module 3 – Alluvial fans/foothills geomorphology.

Lecture portion topics:

Fluvial and hillslope processes and the influence and evidence of past climate changes;

Drainage network evolution and stream order;

Controls on deposition and erosion.

Weathering (geosphere / atmosphere interactions) and soil development; and

Rio Grande Rift development and influence of faults and structures on groundwater recharge.

Laboratory portion topics:

Field mapping exercises on terraces and alluvial fans at Sandia foothills;

Drainage basin mapping and evaluation;

Sediment source area delineation

Drainage basin geomorphic metrics and stream order calculations;

Locating springs using aerial photography;

Evaluation of soil textures along transect and relationship to fluvial/alluvial geomorphology.

Module 4 – Bosque, geochemistry focus.

Lecture portion concepts:

Geochemistry principles – anion/cation balance, chemical equilibrium;

Geochemical sampling and water quality;

Natural and anthropogenic sources of constituents in groundwater; and

Groundwater resources and movement.

Statistical analyses – probability, correlation, regression, ANOVA.

Lab portion concepts:

Field geochemical measurement and sampling methods;

Laboratory processing and evaluation of samples;

Basic geochemical modeling and chemical charge balance; and

Statistical analysis of geochemical results.

Summary week - Establish links between modules.

COURSE: ENVS 321L: Earth Materials and Critical Zone Geology

Instructor: Emai

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Spring XX

Course Description: Rocks and minerals form a critical foundation for all Earth's systems, and understanding the chemical composition and physical characteristics of these Earth's materials is important for work in Environmental Sciences. This course covers rock and mineral formation, chemistry, stability, and transformations on Earth's surface, focusing on processes related to the "critical zone", or uppermost crust.

Pre-Requisites: ENVS 320L (Environmental Systems); CHEM 121/123L (General Chemistry 1 and lab); MATH 150 (Precalculus) or MATH 153 (Pre-calculus and Trigonometry)

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Differentiate different rock types (e.g., igneous, metamorphic, and sedimentary), identify basic minerals in these rocks, and explain their environments of formation and interpret their plate tectonic context.

Links to Programmatic Objectives P1, P2, and Skills Objectives S1, S13, and S14.

Employ knowledge of isotopic systems to calculate age of rocks and interpret processes of formation Links to Programmatic Objectives P1, and Skills Objectives S1, S2, S13

Employ knowledge of mineral and rock formation to assess the fundamental causes and types of physical and chemical weathering

Links to Programmatic Objectives P1, P2, P4 and P7 and Skills Objectives S1, S6, S12, and S13

Apply knowledge of the genesis of different secondary weathering products and soils to analyze the origin and evolution of diverse landforms and associated surficial processes.

Links to Programmatic Objectives P2, P3, P4 and P7 and Skills Objectives S1, S6, S12, and S13

Map and interpret various soil morphological, chemical and mineralogical properties, describe and classify soil horizons, and interpret the formation of soil profiles in diverse landscapes and climate regimes.

Links to Programmatic Objectives P2, P3, P4 and P7 and Skills Objectives S12

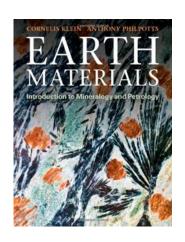
Proposed Textbook and Supplies:

Earth Materials: Introduction to Mineralogy and Petrology, 2012

by Cornelis Klein and Anthony Philpotts

*** or similar textbook, to be determined.

Supplemented by course pack tailored to course material.



Expected Course Format:

The course is divided into a lecture/activity section and a laboratory section. In the lecture portion, students will cover information relevant to several topics related to Earth Materials including mineral formation and geochemistry, rock formation, the rock cycle tied to plate tectonics, radiometric age dating, weathering, and soils and geomorphology. The laboratory portion of the class provides training on skills needed to assess rocks and minerals in the field and in the laboratory, including sections focused on microscopy, hand sample analysis, field data collection, and field mapping.

Expected Course Requirements and Grading:

Homework Exercises	20%	Several homework assignments during the course of the semester.
Laboratory Exercise/Module Write- ups	25%	A final write-up will be required for each lab exercise.
Exams	25% total	Midterm Exam
	30%	Final Exam

Grading Scale: A+ (97 -100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

- decimal portions will be rounded up if over 0.5, down if below 0.5

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Attendance Policy:

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Accommodation Statement:

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Draft Schedule of Topics:

Lecture Portion:

Introduction to Earth Materials

Minerals – building blocks of rocks.

Geochemistry – analyses of rocks

The rock cycle

Magma and igneous rocks

Metamorphic rocks

Sedimentary rocks and depositional environments

Global tectonics - plates and plumes

Earth materials as time keepers

Weathering of Earth Materials

Physical weathering

Chemical weathering

Soil science

Formation of soils – geomorphology

Soil classification

Soils in different climates

Soils and landforms

Impacts of climate change on soils

Field trip based – alluvial fans, terraces, pediments, hillslopes

Earth surface materials

Soil morphological properties

Secondary minerals

Laboratory Portion:

Igneous minerals

Hand specimen based

Igneous rocks

Hand specimens

Petrographic microscope

Magma chamber and magma differentiation

Quantitative exercise

Metamorphic minerals

Hand specimens

Metamorphic rocks

Hand specimens and thin sections

Sedimentary Rocks (clastic and chemical)

Hand specimen and thin sections

Surface materials and processes

Field trip based – fluvial, eolian, mass movement

Terrestrial landforms

Field trip based – alluvial fans, terraces, pediments, hillslopes

Earth surface materials

Soil morphological properties

Secondary minerals

COURSE: ENVS 322L: Life and the Earth System

Instructor: Corinne Myers Email: cemyers@unm.edu

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): MWF Class Time:

Class Location / Room: Term/Semester: Fall XX

Course Description: Investigation of the co-evolution of the Earth and life, including origins and evolution of life, ecology and biogeography, biogeochemical cycles, and the impact of a dynamic Earth environment on major radiations and extinctions. In-class discussions and exercises, labs, and field trips are geared towards establishing expertise in hypothesis generation, data collection, basic statistical analysis, and visualization and spatial analysis using a GIS.

Pre-Requisites: BIOL 123 (Biology for Health Related Sciences and Non-Majors); BIO 124L (Lab); ENVS 101 (The Blue Planet); ENVS 102L (The Blue Planet Lab); MATH 150 (Pre-Calculus Mathematics) or MATH 153 (Pre-Calculus and Trigonometry); ENVS 320L (Environmental Systems); ENVS 321L (Earth Materials)

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Students will be able to describe feedbacks between life the other spheres (geosphere, hydrosphere, atmosphere), including specific examples of how life impacts the abiotic Earth environment and how the abiotic environment impacts life over short and long spatiotemporal scales.

Links to Programmatic Objectives P1, P2, P4, P8.

Students will be able to define basic principles and concepts of the origin of life, biodiversity, ecology, and evolution. Students will be able to identify processes uniquely occurring in evolution vs. ecology and analyze the linkages between them.

Links to Programmatic Objectives P1, P8.

Students will be able to define ways in which human behaviors impact the biosphere. Students will be able to analyze the potential consequences of human impacts at appropriate spatiotemporal scales within both an evolutionary and ecological context.

Links to Programmatic Objectives P1, P5, P6.

Students will be able to apply common tools used in Environmental Science, such as interpretation of maaps, graphs, figures, and statistical models to enable analysis and synthesis of data collected in the field and from online databases.

Links to Programmatic Objectives P6, P7; Skills Objectives S2, S3, S8, S9.

Students will be able to employ common software for scientific work, such as word processing, spreadsheet programs, presentation software, and basic data visualization and spatial analysis in a GIS.

Links to Programmatic Objective P7; Skills Objectives S2, S3, S8, S9.

Students will be able to search, read and report on literature related to Environmental Science, and students will be able to present this material in a concise manner (e.g. in an oral presentation and/or a written report).

Links to Programmatic Objective P7, and Skills Objectives S14, S15, S16.

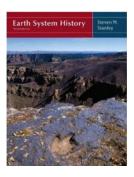
Students will be able to apply scientific methods to a research question in Environmental Science, as well as explain the impact of science in their daily lives and expected careers.

Links to Programmatic Objective P1, P4, P6, P7; Skills Objectives S2, S3, S12, S14, S15.

Proposed Textbook and Supplies:

Earth System History, Third Edition, 2008 by Steven M. Stanley (4th ed just came out Feb 2014...?)

Supplemented by course packet including relevant primary literature.



Expected Course Format:

The course and lab are divided into five themes that highlight different aspects of the biosphere within the larger Earth system. Lectures will introduce new concepts in biology, including ecology, evolutionary theory, and biogeochemical cycling, and practice identifying, reading, and analyzing primary literature. Labs will introduce basic techniques in biological environmental science, including data collection (from fieldwork, museums, and online databases), basic statistical analysis, and visualization/spatial analysis using a GIS. Labs will enable application of these techniques in both independently (e.g., through guided exercises and short writeups) and synthesized through a multi-week research project. Students will synthesize material by analyzing human impacts on the biosphere and other components of the Earth system in a research paper and final oral debate with classmates on consequences and strategies to mitigate these effects.

Expected Course Requirements and Grading:

In-Class Exercises, Presentations, and Homework Exercises	20%		Several homework or in-class assignments during the course of the semester.
Laboratory Exercise/Module Write-ups	20%		Each lab is accompanied by a written exercise or write-up.
Exams	20% tal 15%	to-	One midterm exam Final Exam (Comprehensive)
Participation	5%		Evaluated on participation in activities.
Research Paper and Presentation	20% tal 10%	to-	Research paper Participation in final debate/discussion on human impacts on biosphere.

Email / Internet Access Policy:

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Attendance Policy:

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Accommodation Statement:

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DRAFT SCHEDULE OF TOPICS

Module 1 - Habitable planet and early life.

Lecture topics:

What is life?

Abiotic conditions necessary to produce/sustain life

Is the Earth unique?

Origins and early life – great oxygenation event

Issues of spatial and temporal scale

Lab topics:

Data collection and hypothesis testing in biological sciences

Origins and early life

Basic statistical analysis: central tendencies, probability/distributions, correlation, t-tests

Module 2 – Abiotic-biotic feedbacks and nutrient cycling.

Lecture topics:

Major biogeochemical cycles (C, N, P, some on Fe, S); including sources and sinks, residence times in reservoirs, historical and human perturbations to the system

Major environmental cycles and impact on life -

Atmosphere/cryosphere - greenhouse/icehouse cycles, Milankovich cycles

Lithosphere – plate tectonics, volcanism, dynamic topography

Hydrosphere – ocean oxygenation and circulation

Life's impact on the environment – build-up of oxygen (photosynthesis/respiration), biomineralization, bioturbation, weathering, erosion

Lab topics:

Stella biogeochemical modeling

GIS map of nutrient sources/sinks

Species' distribution change across Pleistocene climate changes (e.g., SERC exercise or ENM)

Biological weathering and/or bioturbation experiment

Module 3 – Genealogical Hierarchy: evolution, causes/consequences of major radiations and extinctions.

Lecture topics:

Genealogical individuals – genes, chromosomes, germ-line cells, organisms, demes, species, clades; linked through the transfer of information via reproduction

Taxonomy vs. phylogeny; homology

Species definitions (sexual vs. asexual reproduction)

Theory of evolution

Evolutionary mechanisms: mutation, genetic drift, gene flow, natural selection, sorting, etc.

Speciation – descent with modification, mate recognition, sympatic, allopatric (parapatric, peripatric); factors promoting and inhibiting

Extinction – local, regional, global, mass extinction; factors promoting or inhibiting

Lab topics:

Taxonomy and identification of homology

Morphological and genetic coding and phylogenetic analysis

Natural selection (e.g. moths selection simulation)

Population Genetics (e.g., population change by allele combo, "mating game")

Module 4 – Ecological Hierarchy: energy transfer in ecosystems, population and species ecology, biogeography.

Lecture topics:

Ecological individuals – proteins, somatic cells, organisms, avatars, ecosystems/communicates, biosphere/regional biota; linked through the transfer of matter and energy via interaction with the environment

autotrophy vs. heterotrophy; trophic levels, food chains/webs

metabolism

environmental niches

biotic interactions – competition, mutualism, commensalism, parasitism, etc

dispersal – home range vs. chance events, migration, vicariance

population ecology and life history traits

species ecology and biogeographic traits

impact of ecological hierarchy on evolution via natural selection

Lab topics:

Population ecology – predator/prey interactions, density dependence/carrying capacity, life history tables; (e.g., simulation experiments)

Species ecology – elevational vs. latitudinal diversity gradients, Earth's major biomes, niches and climate change;

Collecting data from online scientific databases for GIS visualization and spatial analysis (maybe ENM?); basic stats

Fieldtrip – ecosystem function and/or diversity counting; collect data for later GIS visualization and spatial analysis

Module 5 – Synthesis: Humans and the biosphere.

Lecture topics:

Challenges to biota today – climate change (ocean acidification), habitat degradation/loss, biotic invasions

Human impacts on biosphere – over-population, over-harvest, pollution, landscape changes, introduced species

Conservation biology – global biosphere connections, genetic bottlenecks, species extinction before discovery, effective habitat/wilderness protection, efficacy of restoration and re-wilding, policy/advocacy/ESA and other regulations

Lab topics:

Multi-week final project: Are we headed towards a 6th mass extinction?

In groups, review primary scientific literature, as well as policy decisions and debates on this issue; codify arguments for/against, consequences of various styles of action/inaction, etc.

Final lab: debate and "what should we do about it" policy discussion; final write-up on consequences of inaction on the biosphere and other Earth system components

COURSE: ENVS 323L: Water in the Earth System

Instructor: Email

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Spring XX

Course Description: Quantitative treatment of the global hydrologic cycle and links to the broader Earth System, including precipitation, evaportranspiration, infiltration, runoff and subsurface flow; global change and hydrology; catchment and hillslope hydrology; hydrologic system-ecosystem interactions; water chemistry evolution.

Pre-Requisites: ENVS 321L (Earth Materials) or EPS 304L (Sedimentology and Stratigraphy); MATH 162 (Calculus I); PHYC 160 (General Physics I).

Co-Requisites: MATH 163 (Calculus I)

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Analyze, critically interpret, and evaluate (both qualitatively and quantitatively) water and energy movement and related processes in the hydrologic cycle, including evaluation of precipitation, stream flow, and groundwater data using concepts of fluid dynamics.

Links to Programmatic Objectives P1, P2, P3, P4, P5, and P7, and Skills Objectives S1, S2, S3, S4, S5, S6, S7, S8, and S11.

Evaluate and construct simple numerical models of water movement in Earth Systems.

Links to Programmatic Objectives P1 and P4, and Skills Objectives S1, S2, S4, and S5.

Describe how a changing climate may impact water quantity and quality.

Links to Programmatic Objective P5 and Skills Objectives S1, S2, S3, S4, and S5.

Analyze chemical constituents in water and assess evolution of the water composition.

Links to Programmatic objectives P1, P3 and P4 and Skills Objectives S1, S3, S4, S5, S6, S8, S9, and S12.

Students will be able to employ common software for scientific work, such as MATLAB, word processing, spreadsheet programs, and presentation software.

Links to Programmatic Objectives P7 and Skills Objectives S1, S3, S4, S5, S7, S9 and S14.

Students will be able to search, read and report on literature related to Hydrology.

Links to Skills Objectives S14 and S16.

Students will be able to explain and describe some principles of ethics in the conduct and application of science, within the academic and professional arenas.

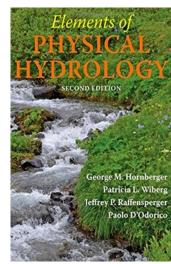
Links to Programmatic Objective P6.

Proposed Textbook and Supplies:

Elements of Physical Hydrology, 2nd Edition, 2014

by George M. Hornberger, Patricia L. Wiberg, Jeffrey P. Raffensperger, and Paolo D'Ordorico

Supplemented by on-line materials and exercises.



Expected Course Format:

The lecture portion of the class will focus on theoretical aspects of physical hydrology, including dynamics of freshwater flow throughout the Earth system and statistical techniques for analyzing data. The lab portion of the class will involve hands-on data collection and analysis from a variety of field settings and from laboratory physical and computational experiments. The lab portion will also include an introduction to MATLAB programming.

Expected Course Requirements and Grading:

In-Class Exercise Write-ups and Homework Exercises	25%	Several homework assignments during the course of the semester.
Laboratory Exercise/Module Write- ups	25%	A final write-up will be required for each of the 4 lab modules.
Exams	20% total	Midterm Exam
	25%	Final Exam (Comprehensive)
Participation	5%	Evaluated on participation in activities.

Grading Scale: A+ (97-100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

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Attendance Policy:

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Accommodation Statement:

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Draft Schedule of Topics (subject to change):

1) Intro and Land-Atmosphere Interactions

Water balance

Precipitation

Evapotranspiration

Lab: Field sampling of hydrogeologic data

2) Principles of fluid dynamics

Forces on fluids

Fluid statics

Fluid dynamics

Energy Loss

Laminar and turbulent flows

LAB: Introduction to MATLAB (two sessions)

3) Open channel hydraulics

Specific energy

Discharge measurements using control structures

Bed roughness

Channel flow equations

Measuring flow in natural channels

LAB: Stream Gaging (possible field work)

LAB: Geochemical sampling and analysis of surface water

4) Catchment hydrology

The hydrograph

Flood routing

Flood frequency analysis

LAB: Muskingum Flood Routing and (or) Flow Duration Curves in MATLAB

5) Groundwater hydraulics

Darcy's Law

Steady groundwater flow

LAB: Groundwater Flow Model ("Antfarm")

6) Groundwater hydrology

Flow nets

Regional groundwater flow

Well hydrographs

LAB: Groundwater Flow Models in MATLAB

7) Water Chemistry in Natural Systems

Geochemical sampling

Geochemical evolution of surface and groundwaters

LAB: Geochemical modeling and sampling labs (two labs)

LAB: Contaminant Transport lab (MATLAB)

8) Water in the unsaturated zone

Forces

Capillary pressure head and the moisture characteristic

Vertical water movement

Equilibrium profile above a water table

Infiltration

Evapotranspiration in the unsaturated zone

LAB: Soil Moisture and Vadose Zone measurements

LAB: Numerical analysis of 1D Vadose zone flow

9) Catchment hydrology

Streamflow hydrographs

Runoff separation

Catchment models

LAB: Synthesis - post-fire flooding

PROPOSED SYLLABUS

COURSE: ENVS 324: Earth's Climatic Environment

Instructor: Email

Office Location: Office Phone:
Office Hours: Course Credits: 3

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Fall XX

Course Description: In this course, you will gain a basic process-based understanding of Earth's climate system. We will practice physics-based problem-solving skills and apply scientific concepts related to understanding the Earth's climatic system. We will evaluate the magnitude and mechanisms of observed and projected climate change, and discuss issues related to the current climate (e.g., El Niño, drought, global warming, etc).

Pre-Requisites: ENVS 323L; MATH 163 (Calculus II); PHYC 160 (General Physics I)

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Identify the magnitude and mechanisms of observed and projected climate change through analysis of climate data and climate models

Links to Programmatic Learning Outcome P5 and Skill Objectives S2, S3, S5

Solve quantitative problems describing flows of energy, water and wind through the climate system using calculus and basic physical principles

Links to Programmatic Learning Outcome P1, and Skill Objectives S1, S4

Describe and interpret current issues in climate science (Global warming, Drought, El Nino) using physical principles

Links to Programmatic Learning Outcome P6 and Skill Objectives S16

Define central concepts in atmospheric science and use these concepts to diagnose large-scale physical processes that determine atmospheric temperature, humidity, wind and precipitation

Links to Programmatic Learning Outcome P7 and Skill Objectives S1, S4

Be able to define and explain mechanisms that drive atmospheric water and energy cycles

Links to Programmatic Learning Outcome P4 and Skill Objectives S1

Proposed Textbook and Supplies:

The Atmosphere and Ocean: A Physical Introduction, Third Edition, 2012

by Neil C. Wells

IPCC, Summary for Policymakers, 5th Assessment Report

Supplemented by online course materials.





Expected Course Format:

The course will be conducted using a combination of lecture and homework exercises. Work will include:

Readings from the texts (plus occasional handouts from the instructor)

Homework assigments:

Usually assigned on Friday, due at 11 am the following Wednesday

Exams:

3 midterms, 1 final exam, in class.

Expected Course Requirements and Grading:

Homework Exercises	40%	Several homework assignments during the course of the semester.
Exams	35% total	Midterm exams (3 exams during semester)
	25%	Final Exam (Comprehensive)

Grading Scale: A+ (97-100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

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Accommodation Statement:

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⁻ decimal portions will be rounded up if over 0.5, down if below 0.5

^{**} I reserve the right to modify the strict point system for grading.

Draft Schedule of Topics and Course Outline:

week#	<u>topic</u>	chapter from text
1	Introduction / Energy in the Climate System	1
2	Solar Energy and its Variability	1
3	Structure of Ocean and Atmosphere	2
4	Radiation, Temperature and Stability	3
5	Review / Midterm / Intro to Water in the Atmosphere Midterm #1 (Ch. 1-3)	
6	Clouds and Precipitation	4
7	Global Energy and Water Budgets	5
8	Surface Energy Budgets / Vegetation, Topography and Climate	5
9	Review / Midterm / Intro to Winds and Currents Midterm #2 (Ch. 4-5)	
10	Winds and Currents 6	
11	Ocean/Atmosphere Interaction and Climate Dynamics	7
12	Fully Coupled Climate System: Atmosphere, Land, Ocean, Cryosphere	8
13	Review / Midterm / Intro to Climate Change Midterm #3 (Ch. 6-8)	10 / IPCC
14	Climate Variability and Change in the Last 2000 Years	10 / IPCC
15	Future Climate Change Projections	IPCC

PROPOSED SYLLABUS

COURSE: ENVS 430L: Advanced Environmental Science

Instructor: Email

Office Location: Office Phone:
Office Hours: Course Credits: 4

Class Meeting Day(s): Class Time:

Class Location / Room: Term/Semester: Spring XX

Course Description: The course is designed as a capstone experience for ENVS majors and includes work in the field, laboratory, and classroom. We will divide into groups and focus research on different projects related to Environmental Science.

Pre-Requisites: ENVS 324

Co-Requisites: None

Course Objectives and Student Learning Outcomes:

When you complete this course, you will be able to do the following:

Students will be able to search, read, and synthesize literature related to Environmental Science, and be able to present this material in a written and oral format.

Links to Programmatic Objectives P7 and Skills Objectives S14, S15, S16.

Students will be able to apply quantitative tools and models to address complex problems in Environmental Science. Links to Programmatic Objectives P4 and P7, and Skills Objectives S1-S7.

Students will be able to apply common tools used in Environmental Science, such as interpretation of maps, graphs, figures, and box models to enable analysis and synthesis of data collected in the field.

Links to Programmatic objectives P2, P3, and P7 and Skills Objectives S1, S8, S9, S10, S11, S12 and S13.

Students will be able to employ common software for scientific work, such as word processing, spreadsheet programs, and presentation software.

Links to Skills Objectives S3, S10 and S15.

Students will be able to devise and execute an appropriate task plan to solve a complex problem in Environmental Science.

Links to Programmatic Objective P7.

Students will be able to apply principles of ethics in the conduct and application of science, within the academic and professional arenas.

Links to Programmatic Objective P6.

Proposed Textbook and Supplies:

No textbook required. All materials will be available on UNM Learn or handed out.

Useful resources:

Introduction to Environmental Engineering, by GM Masters

Applied Hydrogeology, by CW Fetter

Global Environment: Water, Air and Geochemical Cycles, by Berner and Berner

Energy: Perspectives, Problems and Prospects, by MB McElroy

Selected USGS, other Federal reports, NMED, and NMB regional studies

Expected Course Format:

The class meets twice weekly in the classroom for lectures, presentations by students in the course, as well as visiting environmental professionals. Class periods are also used for project introduction, progress reports, and exercise review. Lab periods (one afternoon per week) are utilized for project team work, experiential learning activities, including trips to locations in the Albuquerque area for field exercises or adjourn to analytical laboratories on campus for hands-on exercises working on materials we have collected in the field. Exercises will often be performed by teams, but students are responsible for turning in their own, individual materials and contributing appropriately to team efforts. Other assignments (some requiring reading or web access) will be worked on either in groups or independently (as specified). Materials are turned in weekly. There will be three all-day field trips. Attendance on 2 of the 3 is mandatory.

Expected Course Requirements and Grading:

Graded aspects of the course consist of class participation, weekly exercises, written materials, and oral presentations.

Short presentations	25%
Homework assignments and short papers	25%
Participation	15%
Final Project	35%

Grading Scale: A+ (97-100), A (93-96), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (0-59)

- decimal portions will be rounded up if over 0.5, down if below 0.5

Email / Internet Access Policy:

<u>All students are required to have a university e-mail account.</u> We will be using <u>UNM LEARN</u> as a course tool and it requires a UNM NetID account for access. Also, I will email updates/changes to the class and reminders or help for assignments during the duration of the class. You will need to use your UNM email (or forward that email) to get these announcements. YOU NEED TO USE UNM LEARN IN ORDER TO BE SUCCESSFUL IN THIS CLASS!

Attendance Policy:

The class is participatory, and attendance is required unless you have discussed this with the instructor and we have a mutual agreement BEFOREHAND.

Accommodation Statement:

Accessibility Services (Mesa Vista Hall 2021, 277-3506) provides academic support to students who have disabilities. If you think you need alternative accessible formats for undertaking and completing coursework, you should contact this service right away to assure your needs are met in a timely manner. If you need local assistance in contacting Accessibility Services, see the Bachelor and Graduate Programs office.

Draft Course Themes:

Write to the Top! You will write short items as well as long. You should write in a professional style unless otherwise indicated.

Am I making myself clear?: You will speak/present to the class.

Walk the walk and talk the talk: You will make and record measurements and observations in a professional manner.

What's going on?: Project-based learning. Background, measurements, analyze, interpret, model, summarize, present.

Professional Development: Learning the business and ethics of Environmental Science. We will have invited speakers as part

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Curriculum Workflow



Link to Curricula Forms Process	Manual	
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1694	<u> </u>
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Associated Forms exist?* Yes	, •	Date : 10-07-2015
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would like to offer graduate students greater	or upload a doc/pdf file) ed to the 9 credit hours of electives is confusing. The math flexibility in how they satisfy their elective credits. The adr Advisor. The information in the current catalogue is a little	ministrative structure of Women Studies
Upload a document that inlcudes justificati workload implications.* (upload a doc/pdf fil	on for the program, impact on long-range planning, detale)	ailed budget analysis and faculty
Women Studies Form C Transcripted Certific	ate Budget Justification.docx	
Are you proposing a new undergraduat	te degree or new undergraduate certificate? If yes, uplo	oad the following documents.
Upload a two-page Executive Summary au	thorized by Associate Provost.* (upload a doc/pdf file)	
Upload memo from Associate Provost auti	horizing go-ahead to full proposal.* (upload a doc/pdf file	?)
Approve and Sign Off	Send back to Initiator (Rajeshwari Vallury) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 U	University of New Mexico Albuquerque, NM 87131-0001	

CURRENT CATALOGUE COPY

Graduate Certificate in Women Studies

Students may present Women Studies as a transcripted graduate certificate with 15 credit hours as follows:

(6 credit hours of required courses): with a 3.0 or higher in WMST 510 Feminist Theories and WMST 512 Feminist Research Methodologies. 9 credit hours of electives approved by Director of WS: 6 credit hours may be taken within the student's program; 6 credit hours must be taken from another department. Students must receive at least a 3.0 in all classes. Other courses may be used upon petition to the Director.

PROPOSED REVISIONS

Graduate Certificate in Women Studies

Students may present Women Studies as a transcripted graduate certificate with 15 credit hours of graduate study as follows:

6 credit hours of required courses with a 3.0 or higher in WMST 510 Feminist Theories and WMST 512 Feminist Research Methodologies, and 9 credit hours of electives approved by the Graduate Advisor of WS. The 9 credit hours of electives may be taken within the program in Women Studies, the student's home department, or in combination with appropriate courses from another department. Students must receive at least a 3.0 in all classes.

Under the proposed revisions, students have the freedom to take their electives in the Women Studies program, in their home department, or another department. The greater flexibility means that students can satisfy their electives from a variety of departments across campus. This places no extra teaching or budgetary constraints upon faculty in Women Studies.

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Link to Curricula Forms Process Ma	nual	
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1695	POF
Fields marked with * are required		
Name of Initiator: Rikk Murphy Email: rikk@u	nm.edu Phone Number: 505-277-5009 Date	: 10-09-2015
	Initiator's Title* Coordinator Program Advisement	t, Psych Dept
Faculty Contact* Katie Witkiewitz	Administrative Contact*	Rikk Murphy
Department* Psychology	Admin Email* rik	kk@unm.edu
Branch	Admin Phon	e * 277-5009
Proposed effective term Semester Fall ▼ Year 2016 ▼		
	Course Information	
Select Category * Concentration ▼ Degree Select Action Revision ▼	ology - Quantitative Methodology Concentration & e Type	
Exact Title and Requirements as they should a See current catalog for format within the respecti	uppear in the catalog. If there is a change, upload we college (upload a doc/pdffile)	current and proposed requirements.*
Quant Comparison.docx		
Reason(s) for Request* (enter text below or up The purpose of the current catalog request is to terminology used in the field and to capitalize on Methodology emphasis. We are also requesting (PSY 650) courses, but that we expect to teach o	change out four of the courses in the Quantitative the expertise of the current faculty who are available courses numbers for two of the courses that have particular basis. In the description of the Quantita because the changed to PSY 601 (Multivariate Statistics).	Methodology area to better reflect the current ble to teach courses within the Quantitative previously been offered as special topics tive Methodology Concentration we request
Upload a document that inlcudes justification f workload implications.* (upload a doc/pdf file)	or the program, impact on long-range planning, o	detailed budget analysis and faculty
Quant 2015 Course Catalog Changes justification	n.docx	
	egree or new undergraduate certificate? If yes, ι	
Upload a two-page Executive Summary author	rized by Associate Provost.* (upload a doc/pdf file	e)
Upload memo from Associate Provost authori	zing go-ahead to full proposal.* (upload a doc/pdf	file)
Approve and Sign Off	Send back to Initiator (Rikk Murphy) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Univer	sity of New Mexico Albuquerque, NM 87131-0001	

Current Catalog Language Proposed Catalog Language

Quantitative Methodology Concentration

Beyond the departmental core requirements, all Quantitative Methodology students are required to complete PSY 601 (Multiple Measures) and four other courses. At least two of these four courses must be selected from the following list of quantitative courses offered in our Department:

PSY 506	ST: Seminar in Mathematical Psychology
PSY 650	ST: Quasi-Experimental Design
PSY 650	ST: Program Evaluation Research
PSY 650	ST: Structural Equation Modeling
PSY 650	ST: Computer Simulation
PSY 650	ST: Computer Experimental Control

At least one, but not more than two, of these courses must be selected from courses in quantitative methods offered by other University of New Mexico departments. The Quantitative Committee maintains a list of extra-departmental courses that may be used to satisfy this requirement; any other course a student wishes to count toward this extra-departmental requirement must be approved by the Quantitative Committee.

Quantitative Methodology Concentration

Beyond the departmental core requirements, all Quantitative Methodology students are required to complete PSY 601 (Multivariate Statistics) and four other courses. At least two of these four courses must be selected from the following list of quantitative courses offered in our Department:

PSY 506	ST: Seminar in Mathematical Psychology
PSY 604	Latent Variable Modeling
PSY 605	Adv. Latent Variable Modeling
PSY 606	Analysis of Data
PSY 650	Meta-Analysis
PSY 650	ST: Quasi-Experimental Design

At least one, but not more than two, of these courses must be selected from courses in quantitative methods offered by other University of New Mexico departments. The Quantitative Committee maintains a list of extra-departmental courses that may be used to satisfy this requirement; any other course a student wishes to count toward this extra-departmental requirement must be approved by the Quantitative Committee.

Current Catalog Language Proposed Catalog Language

Quantitative Methodology Emphasis

Students in any Psychology concentration, other than Quantitative Methodology, may choose an emphasis in Quantitative Methodology. Students choosing and emphasis in Quantitative Methodology must complete 9 credit hours of graduate coursework in the Quantitative/Methodology area. Any of the following courses may be used to satisfy the requirements for this emphasis. Requests to use other courses are reviewed by the Quantitative Methodology committee on a case-by-case basis.

PSY 650	ST: Multivariate Statistics
PSY 650	ST: Latent Variable Modeling
PSY 650	ST: Advanced Latent Variable Modeling
PSY 650	ST: Analysis of Data
PSY 650	ST: Programming in Psychology
ECE 595	ST: Analysis Methods in Functional Magnetic Resonance Imaging
EDPY 606	Applied Multivariate Statistics
EDPY 607	Structural Equation Modeling
PH 502	Epidemiologic Methods I

Quantitative Methodology Emphasis

Students in any Psychology concentration, other than Quantitative Methodology, may choose an emphasis in Quantitative Methodology. Students choosing and emphasis in Quantitative Methodology must complete 9 credit hours of graduate coursework in the Quantitative/Methodology area. Any of the following courses may be used to satisfy the requirements for this emphasis. Requests to use other courses are reviewed by the Quantitative Methodology committee on a case-by-case basis.

PSY 601	Multivariate Statistics
PSY 604	Latent Variable Modeling
PSY 605	Advanced Latent Variable Modeling
PSY 606	Analysis of Data
PSY 650	ST: Programming in Psychology
ECE 595	ST: Analysis Methods in Functional Magnetic Resonance Imaging
EDPY 606	Applied Multivariate Statistics
EDPY 607	Structural Equation Modeling
PH 502	Epidemiologic Methods I

STAT 574	Biostatistical Methods: Survival Analysis and Logistic Regression	STAT 574	Biostatistical Methods: Survival Analysis and Logistic Regression
STAT 576	Multivariate Analysis	STAT 576	Multivariate Analysis
STAT 577	Introduction to Bayseian Modeling	STAT 577	Introduction to Bayseian Modeling
STAT 581	Introduction to Time Series Analysis	STAT 581	Introduction to Time Series Analysis

Budgetary and Faculty Load Implications

The changes to the course numbers will not require additional budgetary resources or additions to our current faculty. There are no direct implications regarding faculty load. The courses being changed are already being offered in the department.

Long-Range Planning

The changes to the course catalog are a reflection of changing terminology in the field and the expertise of the faculty in Psychology. We believe these changes will enable our department to offer the most sophisticated quantitative methodology courses to our students, which will be good for the long term health of our graduate program.

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	ez re	Phone Number: 505 277-1971 ssociate Professor: SA+P Architectu Administrative Contact* Admin Email* quale	John Quale e@unm.edu
Proposed effective term Semester Spring ▼ Year 2016 ▼			
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Does this change affect other department	ntal program/branch	campuses? If yes, indicate below	<i>1</i> .
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Upload a document that inlcudes justification workload implications.* (upload a doc/pdf file)		npact on long-range planning, deta	iled budget analysis and faculty
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☐ Are you proposing a new undergraduate	degree or new unde	ergraduate certificate? If yes, uplo	ad the following documents.
Upload a two-page Executive Summary auth	orized by Associate	Provost.* (upload a doc/pdffile)	
Upload memo from Associate Provost autho	rizing go-ahead to fu	ull proposal.* (upload a doc/pdf file)	
Approve and Sign Off		tiator (Gabriella Gutierrez) nt on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Univ	rersity of New Mexico Albu	uquerque, NM 87131-0001	

Degree/Program Change Request
FORM C (1705)
Submitted by Gabriella Gutierrez, Associate Professor
School of Architecture and Planning
ggutierr@unm.edu
October 14, 2015 (revised October 19)

Justification for Request:

To offer the new Plan III (course work only) option to our graduate students in the Master of Architecture Degree Programs in addition to Plan I, and Plan II.

The Master of Architecture in the U.S. is a first professional degree that is accredited by the National Architectural Accrediting Board (NAAB). A first professional degree is required for professional licensure, and as such is appropriate to offer our graduate students the Plan III option (course work only) as a completion requirement for the degree. Plan III would allow more flexibility and diversity as regards outside reviewers of their studio work at the advanced level since it does not have the masters exam committee requirement.

Impact on long-range planning, budget and workload:

No measurable impact.

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Curriculum Workflow



Link to Curricula Forms Process Manual	PDF
DEGREE/PROGRAM CHANGE FORM C	Ado
Form Number: C1713	
Fields marked with * are required	
Name of Initiator: Elizabeth Anne Castillo Email: eac@unm.edu Phone Number: 505 277-5050 Date: 10-16-2015	
Associated Forms exist?* Yes ■ Initiator's Title* Admin Assistant 3: Sch Arch Planning Gen Admin	
Faculty Contact* Renia Ehrenfeucht Administrative Contact* Elizabeth Castillo	
Department* Community and Regional Planning Program Admin Email* eac@unm.edu	
Branch Sch Architecture and Planning Admin Phone* 277-5050	
Proposed effective term	
Semester Fall ▼ Year 2016 ▼	
Course Information	
Select Appropriate Program* Graduate Degree Program ▼	
Name of New or Existing Program* Master of Community and Regional Planning	
Select Category * Degree ▼ Degree Type Masters Select Action Revision ▼	
Select Action Revision 7	
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed require See current catalog for format within the respective college (upload a doc/pdf file)	ements.*
Supplement to Form C MCRP Exit Req.pdf	
✓ Does this change affect other departmental program/branch campuses? If yes, indicate below.	
Reason(s) for Request* (enter text below or upload a doc/pdf file) Two associated Form Bs and two associated Form Cs, explained here. Add additional exit requirement option under Plan II, i.e. a studio option to the MCRP degree. Two associated Form Bs are being submitted to create two exit studios: CRP 597, Capstone Pl Studio, variable credit 1CH to 6CH, AND CRP 598, iTown Studio, variable 1CH to 6CH. See attached supplement showing proportion to the Regarding dual degrees, the MCRP degree program has three existing dual degree options with: Master of Arts in La Studies, Master of Public Administration, and Master of Water Resources. All three associated programs have been contacted about the MALAS/MCRP dual degree curriculum. A separate, concurrent Form C is being submitted by CRP for the MALAS/MCRP dual Resources and Public Administration both were contacted about the added exit studio option and declined to have it included in to of their respective MWR/MCRP and MPA/MCRP dual degrees. Correspondence from both of these programs is attached here in C indicating their opt out (MWR correspondence shows first; scroll down in PDF to see MPA correspondence). Another concurrent F submitted to add a fourth concentration option, Indigenous Planning, to the MCRP degree. Supplement attached here refers to the is the same supplement attached to that Form C.	lanning sed revision i atin American out the exit option in degree. Wate he curriculum ONE PDF form C is bein
MWR and MPA Correspondence.pdf	
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and f workload implications.* (upload a doc/pdf file)	aculty
Justification Form C MCRP Exit Req.pdf	
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following document	ts.
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)	
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)	

Send back to Initiator (Elizabeth Anne Castillo) Comment on this Form

Approve and Sign Off

Committee Review

3/11/2016 AutoCurric Form C



Elizabeth Anne Castillo

From: Renia Ehrenfeucht

Sent: Monday, October 12, 2015 4:24 PM

To: Elizabeth Anne Castillo **Subject:** FW: dual degree with crp

Renia Ehrenfeucht Professor + Director Community and Regional Planning School of Architecture + Planning University of New Mexico rehrenfeucht@unm.edu

From: William Fleming < fleming@unm.edu

Date: Monday, October 12, 2015 at 4:17 PM

To: Renia Ehrenfeucht < rehrenfeucht@unm.edu

Subject: Fwd: dual degree with crp

Sent from my iPhone

Begin forwarded message:

From: Robert Berrens < rberrens@unm.edu>
Date: October 12, 2015 at 3:16:57 PM MDT
To: William Fleming < fleming@unm.edu>
Cc: Robert Berrens < rberrens@unm.edu>
Subject: Re: dual degree with crp

Hi Bill

Thanks for your inquiry. The Water Resources Program (WRP) at UNM offers the interdisciplinary Masters in Water Resources (MWR) degree, and participates with Community and Regional Planning in offering the dual MCRP-MWR degree. As part of the MWR, as well as in the MCRP-MWR, WRP requires that all students take the WR 573 Water Resources III - Field Problems (4 cr) course as part of our core sequence. This course is a field-based course taught by an interdisciplinary group with a STUDIO focus: there are few lectures, a mix of field collection (chemistry, biology, hydrology) and lab testing, students work in groups emphasizing collaborative and cooperative learning, and considerable student responsibility to collectively produce and present the final product -typically a rapid watershed assessment report from the summer field site(s).

Let me know if you need anything else.

Sincerely,

Bob

Robert Berrens Director, Water Resources Program Professor, Department of Economics University of New Mexico 505 250-5989

On 10/12/15 1:40 PM, William Fleming wrote:

Hi Bob,

We are in the process of submitting a form C to add a studio to our exit requirements. As you already require a summer field studio, there is no need to add a CRP studio to the dual degree requirements. Could you please send me an email confirming this? Our director, Renia Ehrenfeucht, would like to attach a note from you to the form C.

Thanks much, Bill

Elizabeth Anne Castillo

From: Gene Henley

Sent: Thursday, October 22, 2015 11:18 AM

To: Elizabeth Anne Castillo

Subject: RE: Dual MPA-MCRP Guidelines

Liz.

Thanks for the reminder.

I believe SPA would opt out at this time.

We too are currently reviewing our capstone options and until they decide what to do re the Plan III option as well as a couple of other things, I think it's best we not add another issues at this time.

Have a great day and a better week!

Gene V. Henley
Director of Operations and Advisement
School of Public Administration
O) 505.277.1095
F) 505.277.2529
C) 505.385.6999
http://spa.unm.edu//

Please expect a 3 business day response time, not including weekends or holidays.

Please include your student ID number and full name in your correspondence.

IMPORTANT: FERPA guidelines indicate you MUST email from your @unm.edu account if you are a current UNM student. For more information about FERPA, please visit this website: http://ed.gov/policy/gen/guid/fpco/ferpa/students.html.

From: Elizabeth Anne Castillo

Sent: Thursday, October 22, 2015 10:48 AM
To: Gene Henley <ghenley@unm.edu>
Subject: RE: Dual MPA-MCRP Guidelines

Gene,

Did you get my email RE: MCRP adding a capstone studio exit option? I think Ric at some point told you about this, but basically, we are adding under Plan II a course called CRP 597, Capstone Planning Studio. So, exit requirement options will be: Plan I: CRP 588 (2CH)+CRP 599/Thesis (6CH) –OR-- Plan II: CRP 588+CRP 589/Prof Proj (6CH) –OR-- Plan II: CRP 588+CRP 597/Capstone Studio (6CH).

The Registrars office told me that each dual degree can either include the new capstone studio option as part of the dual degree, in which case I would submit an extra Form C for that dual degree, OR a dual degree can decline adding the new option, in which case we need some communication from the dual program indicating their opt out. I then would attach that communication of opt out to our lone MCRP Form C.

Please let me know if PADM dual will opt out of the new option, or if you would like me to submit a Form C for MCRP/MPA to add the new option. Thank you.

Liz

From: Gene Henley

Sent: Thursday, October 22, 2015 10:14 AM

To: James Richardson

Cc: Elizabeth Rowe; Elizabeth Anne Castillo **Subject:** RE: Dual MPA-MCRP Guidelines

Ric,

Here are the proposed revisions from our meeting yesterday.

This, I believe, honors the present dual degree approved by both faculties; adjusts the total credit hours to the new 60 credit hour requirement and incorporates the new CRP course. Please let me know what you think.

Have a great day and a better week!

Gene V. Henley
Director of Operations and Advisement
School of Public Administration
O) 505.277.1095
F) 505.277.2529
C) 505.385.6999
http://spa.unm.edu//

Please expect a 3 business day response time, not including weekends or holidays.

Please include your student ID number and full name in your correspondence.

IMPORTANT: FERPA guidelines indicate you MUST email from your @unm.edu account if you are a current UNM student. For more information about FERPA, please visit this website: http://ed.gov/policy/gen/guid/fpco/ferpa/students.html.

From: Elizabeth Anne Castillo

Sent: Monday, October 05, 2015 10:59 AM **To:** Gene Henley <ghenley@unm.edu>

Cc: James Richardson < irich@unm.edu >; Elizabeth Rowe < erowe@unm.edu >; Renia Ehrenfeucht

<rehrenfeucht@unm.edu>

Subject: Dual MPA-MCRP Guidelines

Gene,

Given the recent MCRP change from 50CH to 48CH, with the **MPA/MCRP Dual Degree** going from 62CH to <u>60CH</u> (*minus CRP 521, fulfilling two competencies, and adding 3CH of additional electives*), I have revised the numbers and added the competencies language in a 2010 version of the MPA/MCRP Guidelines which I had in my files, highlighting in yellow

where I made changes. Please let me know if you have a more updated document and/or if the one attached here is okay to use. Thanks so much.

Liz

Elizabeth A. Castillo
Administrative Assistant 3
Community and Regional Planning Program
School of Architecture & Planning, MSC04 2530
1 University of New Mexico
Albuquerque, NM 87131
(505) 277-5050
FAX (505) 277-0076
Pearl Hall, Room 119

Justification

The CRP faculty designed a client-based or community-based studio as an additional exit requirement in response to a suggestion made during the MCRP program's reaccreditation visit. In this studio course, the students will produce professional quality planning deliverables. This will reduce the time students take to complete the degree because some are delayed during the final project and thesis process. The studio will give students an additional way to complete the program while fulfilling the PAB's, the Planning Accreditation Board, exit requirements.

Budgetary and Workload Implications

This curriculum change will have no budgetary impact. The CRP program has planned course sequencing and frequency to be able to offer capstone studios with no changes to faculty workload. No additional resources are necessary.

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Curriculum Workflow



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Name of Initiator: Elizabeth Anne Castillo Associated Forms exist?* Yes Faculty Contact* Re Department* Community and Regional P Branch Sch Architecte	▼ Initiator's T enia Ehrenfeucht lanning Program	itle* Admin Assistant 3: Sch Arch F Administrative Contac Admin Er	ŭ		
Proposed effective term Semester Fall ▼ Year 201	16 🔻				
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Exact Title and Requirements as they sh See current catalog for format within the re			nt and proposed requirements.*		
Supplement to Form C BAEPD.pdf					
✓ Does this change affect other depart	tmental program/branch car	mpuses? If yes, indicate below.			
Reason(s) for Request* (enter text below [REGISTRAR'S NOTE: THE FORMS B ME SUBMITTED FORMS A IN PLACE OF THE second concentration will be in Landscape Landscape Architecture, being initiated by are for the following courses: LA 401, LA 4 Note: included in this Form C, separate from 17CH of BAEPD electives must be upper direquirement, the language is being remove attached supplement. CRP Program intending approval of this Form C. Correspondinguage.	ENTIONED HERE SHOULD IN FORMS B.] This Form C is to be Architecture. There are five at that program. See attached so 02, LA 458, and LA 481, and me the addition of the L. A. conditivision course work. Since the do so that students may take the so make this catalog languages.	andd a second concentration option associated Form Bs to create five not supplement showing catalog text report LA 482. Other LA courses listed in acentration, is the removal of catalogis is not a UNM requirement, nor a 17CH of electives at any level. Repage change in Cascade Workflow,	n to the BAEPD degree program. The new undergraduate course sections is exisions. The five associated Form Beathe attachment already exist. Specially language which states that 9 of the School of Architecture & Planning moval of this language is shown in the if Curriculum office does not do so,		
Correspondence Re BAEPD Electives Lan	nguage.pdf				
Upload a document that inlcudes justifica workload implications.* (upload a doc/pdf		et on long-range planning, detailed	d budget analysis and faculty		
Justification BAEPD Form C.pdf					
Are you proposing a new undergradu	uate degree or new undergra	aduate certificate? If yes, upload	the following documents.		
Upload a two-page Executive Summary a	authorized by Associate Pro	pvost.* (upload a doc/pdf file)			
Upload memo from Associate Provost a	uthorizing go-ahead to full p	roposal.* (upload a doc/pdf file)			
Approve and Sign Off	Send back to Initiator	(Elizabeth Anne Castillo)	Committee Review		

Comment on this Form

3/11/2016 AutoCurric Form C



Supplement to Form C: Bachelor of Arts in Environmental Planning & Design (Addition of a second concentration) Current and Revised Catalog Text

Note: Revisions in the right hand column appear in red text.

Current Text:

Undergraduate Program

Faculty Advisor

William Fleming

School of Architecture and Planning Undergraduate Advisor

Lois Kennedy

Degree Offered

• Bachelor of Arts In Environmental Planning and Design (B.A.E.P.D.)

Introduction

The Bachelor of Arts in Environmental Planning and Design (B.A.E.P.D.) at the University of New Mexico is an undergraduate course of study related to the graduate degree in Community and Regional Planning (CRP). Environmental planning encompasses systematic and creative methods used to influence and respond to dynamic changes occurring in neighborhoods, cities, and entire regions throughout the world. Planners assist communities in formulating policies and plans to meet their social, economic, environmental, cultural, and physical needs.

In the American Southwest, human strategies for adapting to arid conditions have been

Revised Text:

Undergraduate Program

Faculty Advisor

William Fleming

School of Architecture and Planning Undergraduate Advisor

Angela Pacheco [this will be revised during Cascade catalog editing]

Degree Offered

• Bachelor of Arts In Environmental Planning and Design (B.A.E.P.D.)

Introduction

The Bachelor of Arts in Environmental Planning and Design (B.A.E.P.D.) at the University of New Mexico is an undergraduate course of study related to the graduate degrees in Community and Regional Planning (CRP) and Landscape Architecture (LA).

Environmental planning encompasses systematic and creative methods used to influence and respond to dynamic changes occurring in neighborhoods, cities, and entire regions throughout the world. Planners assist communities in formulating policies and plans to meet their social, economic, environmental, cultural, and physical needs.

In the American Southwest, human strategies for adapting to arid conditions have been

evolving for thousands of years. They represent many different cultural perspectives, complex social histories, and rich practical learning that are vital for current and future survival. The B.A.E.P.D. offers students the opportunity to engage in socially and environmentally relevant skill building and to address the issues of an evolving social and cultural landscape.

Opportunities for Environmental Planners exist in a variety of governmental, non-profit, and private for-profit settings. Graduates have been hired in tribal, local, state, regional, and national planning and design offices. At the national level, graduates work for the National Park Service, the U.S. Forest Service, the National Resources Conservation Service, the Peace Corps, Los Alamos National Laboratories, the U.S. Department of Transportation, environmental advocacy organizations, and university facility planning departments. B.A.E.P.D. graduates may advance to a graduate program or to work for state agencies, community-based organizations, community development foundations, or private planning firms concentrating in environmental analysis, geographic information systems, and community health planning.

Students in the B.A.E.P.D. program complete a total of 120 credit hours. The course of study consists of 37 credit hours from the University of New Mexico Core plus: 1 credit hour of science laboratory (as a prerequisite to the program), 33 credit hours of B.A.E.P.D. core courses, 32 credit hours of Community and Regional Planning Concentration courses, and 17 credit hours of electives (at least 9 credit hours of electives must be upper-division course work).

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Admissions

Application packets are due in the School of Architecture and Planning undergraduate advisor's office by April 15 (for Fall admission) or November 15 (for Spring admission) of each year. To apply, a student must have completed a minimum of 26 hours of the UNM Core and/or B.A.E.P.D. Core. including ENGL 120 (with a C or better). The packet consists of an application form, which can be obtained from the School of Architecture and Planning undergraduate advisor, Room 117 in George Pearl Hall, or at the School of Architecture and Planning Web site. Students must also submit a two-page statement of intent indicating how the degree will be beneficial, and an unofficial transcript. Transfer students must also include their transfer courses and exam credits from their LoboTrax degree audit in LoboWeb. Students must have at least a 2.5 GPA. Students are required to either be taking or have taken either CRP 165 Introduction to Community and Regional Planning, or CRP 181 Introduction to Environmental Problems, at the time of their application.

Degree Requirements

Students must complete the UNM Core requirements (37 credit hours) in accordance with the catalog selection options. Courses taken to fulfill UNM Core requirements may not also be used to fulfill B.A.E.P.D. Core requirements. UNM Core selections must include the following:

	Credit Hours
Physical and Natural	
Sciences	

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Students must complete the UNM Core requirements (37 credit hours) in accordance with the catalog selection options. Courses taken to fulfill UNM Core requirements may not also be used to fulfill B.A.E.P.D. Core requirements. UNM Core selections must include the following:

	Credit Hours
Physical and Natural	
Sciences	

	2 courses, both including labs	8
	Social and Behavioral Sciences	
CRP 181	Introduction to Environmental Problems	3
	Environmental Floolenis	
PSY 105	General Psychology	
- <i>or</i> - SOC 101	Introduction to Sociology	3
ARCH 121	Introduction to Architecture	3
	Total for UNM Core, plus extra science lab	38
	B.A.E.P.D. Core	
	Requirements	
CRP	Community and Regional	
165	Planning, Introduction	3
	Tammig, miroduction	
CRP	Human Settlements	3
376		
CRP 482	Graphic Communications	3
CJ 225	Small Group Communication	3
CRP 483	Introduction to Geographic Information Systems	3
	Introduction to Research Methods (from any department)	3
		18
	Physical World (Select One)	
SUST 134	Creating a Sustainable Future: Introduction to Environmental, Social, and Economic Health	3
GEOG 195	Humans Role in Changing the Face of the Earth	3
GEOG 352	Global Climate Change	3
GEOG 365	Nature and Society	3

	2 courses, both including labs	8
	Social and Behavioral Sciences	
CRP 181	Introduction to Environmental Problems	3
PSY 105 - <i>or</i> - SOC 101	General Psychology Introduction to Sociology	3
ARCH 121	Introduction to Architecture	3
	Total for UNM Core, plus extra science lab	38
	B.A.E.P.D. Core Requirements	
CRP 165	Community and Regional Planning, Introduction	3
CRP 376	Human Settlements	3
CRP 482 <i>OR</i> LA 482	Graphic Communications	3
CJ 225	Small Group Communication	3
CRP 483	Introduction to Geographic Information Systems	3
	Introduction to Research Methods (from any department)	3
		18
	Physical World (Select One)	
SUST 134	Creating a Sustainable Future: Introduction to Environmental, Social, and Economic Health	3
GEOG 195	Humans Role in Changing the Face of the Earth	3
GEOG 352	Global Climate Change	3
GEOG 365	Nature and Society	3

	Environmental Caalaav	
EPS	Environmental Geology	3
**333	(Prerequisites, check	3
	Catalog)	
		3
	Philosophy and Ethics	
	(Select One)	
ANTH	Topics in Cultural	2
340	Anthropology	3
CJ 268	Media Theories	3
PHIL		
202	From Descartes to Kant	3
PHIL		
245	Professional Ethics	3
PHIL		
363	Environmental Ethics	3
AMST	Introduction to Environment,	
182	Science and Technology	3
		3
	Art and Design (Select One)	
A D CI I	Art and Design (Select One)	
ARCH 109	Design Fundamentals	3
ARTH	Modern Art	3
250	Wodelli Ait	3
ARTS	Introduction to Art and	2
141	Ecology	3
ARTS 187	Introduction to Photography	3
ARTS	The Phenomena of Color	3
320		
		3
	Social and Political	$\ \hspace{1cm} \ $
	Dimensions (Select One)	
CRP	Community Economics for	2
435	Planners	3
CRP	Sem: Ecotourism and	
470	Community Development	3
CRP	Political Economy of Urban	
487	Development Development	3
POLS	Public Policy and	
270	Administration	3
	<u> </u>	

	1	ır ı
EPS	Environmental Geology	
**333	(Prerequisites, check	3
333	Catalog)	
		3
	Philosophy and Ethics	
	(Select One)	
ANTH	Topics in Cultural	
340	Anthropology	3
CJ 268	Media Theories	3
,		
PHIL 202	From Descartes to Kant	3
PHIL		
245	Professional Ethics	3
PHIL	Environmental Ethica	2
363	Environmental Ethics	3
AMST	Introduction to Environment,	3
182	Science and Technology	3
		3
	Art and Design (Select One)	
ARCH		
109	Design Fundamentals	3
ARTH	Modern Art	3
250		
ARTS	Introduction to Art and	3
141	Ecology	
ARTS	Introduction to Photography	3
187	introduction to Fhotography	3
ARTS	TI DI CCI	2
320	The Phenomena of Color	3
		3
	Social and Political	
	Dimensions (Select One)	
CRP	Community Economics for	2
435	Planners	3
CRP	Sem: Ecotourism and	
470	Community Development	3
CRP	Political Economy of Urban	
487	Development	3
	-	
POLS 270	Public Policy and	3
270	Administration	

POLS 280	Introduction to Political Analysis	3
		3
	Ethnic and Gender Studies (Select One)	
CRP 428	Gender and Economic Development	3
CRP 473	Planning on Native American Lands	3
CRP 486	Planning Issues in Chicano Communities	3
AMST 330	Topics in Gender Studies	3
AMST 350	Topics in Race, Class, Ethnicity	3
		3
	Total for B.A.E.P.D. Core	33
	Community and Regional Planning Concentration Requirements:	
CRP 265	Sustainable Community Planning Methods	3
CRP 330	Introduction to Urban Design	3
CRP 420	Environmental Design Studio	5
CRP 427	Watershed Management	3
CRP 467	Regional Planning Process and Theory	3
		3
CRP 472	Indigenous Planning	3
	Indigenous Planning Cultural Aspects of Community Development Planning	3

Γ		
POLS 280	Introduction to Political Analysis	3
		3
	Ethnic and Gender Studies (Select One)	
CRP 428	Gender and Economic Development	3
CRP 473	Planning on Native American Lands	3
CRP 486	Planning Issues in Chicano Communities	3
AMST 330	Topics in Gender Studies	3
AMST 350	Topics in Race, Class, Ethnicity	3
		3
	Total for B.A.E.P.D. Core	33
	Choose One of the Following Degree Concentrations:	
	Community and Regional Planning Concentration Requirements:	
CRP 265	Sustainable Community Planning Methods	3
CRP 330	Introduction to Urban Design	3
CRP 420	Environmental Design Studio	5
CRP 427	Watershed Management	3
CRP 467	Regional Planning Process and Theory	3
CRP 472	Indigenous Planning	3
CRP 474	Cultural Aspects of Community Development Planning	3
CRP 480	Community Growth and Land Use Planning	3

П		T . 1	
	ECON 105	Introduction to Macroeconomics	
	- <i>or</i> - ECON 106	Introduction to Microeconomics	3
		One Statistics course in any discipline	3
		Total for CRP Concentration	32
		[Continued below]	
		Electives (at least 9 credit hours must be upper-division course work)	
		Total for B.A.E.P.D. Degree	120
	-		

1	1	
ECON	Introduction to	
105	Macroeconomics	
-or-		3
ECON	Introduction to	3
106	Microeconomics	
100		
	One Statistics course in any	
	discipline	3
	1	
	Total for CRP	
	Concentration	32
	Landscape Architecture	
	Concentration	
	Requirements:	
	Landsona Architectura	
LA 401	Design Studio I	6
	I and a son a Analista atoma	
LA 402	Design Studio II	6
LA 461	History & Theory of	3
	Landscape Architecture	
LA 335	Site-Environment	3
LA 481	Landscape Construction	3
LA 461	Materials & Techniques	3
LA 458	Plant Materials	3
	AutoCAD for Landscape	
LA 421	Architects	3
	5 credit hours of additional	
	course work in either	
	Community and Regional	5
	Planning or Landscape	<i>-</i>
	Architecture	
	Total for Landsons	
	Architecture Concentration	32
	memeetare concentration	
	Electives (at least 9 credit	15
	hours must be upper-division	17
	course work)	
	Total for B.A.E.P.D.	120
	Degree	

Long Range Planning

The inclusion of a Landscape Architecture concentration in the BAEPD provides an option within the program for students to build skills and knowledge in the physical design of the environment. Graduates of the program who have completed the LA concentration will have the opportunity to pursue a two-year Master of Landscape Architecture professional degree. Since there is no undergraduate program in Landscape Architecture in the State of New Mexico this option will attract additional students into the BAEPD program, increasing undergraduate as well as graduate credit hours in the School of Architecture and Planning.

Budget

The courses identified in the Landscape Architecture concentration mirror the courses that students entering the three-year graduate program with no design background complete in their first year. All of the courses are currently being taught. Initially the undergraduate sections will be taught with the graduate sections, with a distinction made in the course requirements for the two student cohorts. As undergraduate student numbers increase the first courses to be taught as separate sections will be the two studios, LA 401 and LA 501. In the forseeable future all of the other courses will be taught as combined sections. Initially, and even with separate studio sections, there are no additional budget requirements, and faculty loads among full and part-time instructors can be effectively re-distributed to absorb these courses.

Elizabeth Anne Castillo

From: William Fleming

Sent: Wednesday, October 07, 2015 7:38 AM

To: Elizabeth Anne Castillo

Subject: Re: BAEPD Electives Language in Catalog

Hi Liz

Yes I would like to have it removed.

Thanks Bill

Sent from my iPhone

On Oct 6, 2015, at 3:06 PM, Elizabeth Anne Castillo < eac@unm.edu > wrote:

Hi, Bill,

For upcoming curriculum forms, I mentioned to Renia, CC'd here, the BAEPD issue of catalog language reading "9 of the 17 elective credit hours must be upper division." She asked me to confirm with you if we, indeed, should remove this language, since we found out it is not a UNM requirement.

Please let me know if you would like the upper division language removed from the catalog. Thanks,

Liz

Long Range Planning

The inclusion of a Landscape Architecture concentration in the BAEPD provides an option within the program for students to build skills and knowledge in the physical design of the environment. Graduates of the program who have completed the LA concentration will have the opportunity to pursue a two-year Master of Landscape Architecture professional degree. Since there is no undergraduate program in Landscape Architecture in the State of New Mexico this option will attract additional students into the BAEPD program, increasing undergraduate as well as graduate credit hours in the School of Architecture and Planning.

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DEGREE/PROGRAM CHANGE FORM C Form Number: C1715	PDF
Fields marked with * are required	
Name of Initiator: Colleen Sheinberg	
Proposed effective term Semester Fall ▼ Year 2016 ▼	
Course Information	
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* Bachelor of Arts in Music Select Category * Degree ▼ Degree Type Undergraduate Select Action Revision ▼	
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirement See current catalog for format within the respective college (upload a doc/pdf file)	ts.*
BA Text chgs.pdf	
Does this change affect other departmental program/branch campuses? If yes, indicate below.	
Reason(s) for Request* (enter text below or upload a doc/pdf file) In an effort to comply with the university's desire for degrees that call for only 120 hours credit, we are reducing the number of electives Bachelor of Arts in Music. The degree plan will still call for the same number of hours in the major field of Music.	in the
Upload a document that inloudes justification for the program, impact on long-range planning, detailed budget analysis and facult workload implications.* (upload a doc/pdf file)	у
BA in Music-Impact.pdf	
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.	
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdffile)	
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)	
Approve and Sign Off Send back to Initiator (Colleen Sheinberg) Committee Review Comment on this Form	
Office of the Registrar MSC06 3650 1 University of New Mexico Albuquerque, NM 87131-0001	

Supplement to Form C: Bachelor of Arts in Music Current and Revised Catalog Text

[Current text]:

The Bachelor of Arts with a major in Music is designed for the study of music within a liberal arts curriculum. For the student who is not seeking a professional music degree but who desires a solid foundation in the study of music, the areas of musicianship, performance and history provide the core of courses toward a basic intellectual grasp of the art. Students who additionally seek to major in other areas (double major) or to take a large number of courses in a pre-professional program (pre-law, pre-medical, etc.) are encouraged to enroll in the Bachelor of Arts in Music. The Bachelor of Arts in Music cannot be used as a major in combination with the Bachelor of Music. The Bachelor of Arts in Music is permitted as a major in combination with the Bachelor of Music Education.

1. Courses outside the major:

- a. 40 hours selected from courses offered by the departments of the College of Arts and Sciences, including Core Curriculum requirements (see Fine Arts Graduation Requirements 6). Specific requirements include ENGL 220.
- b. 6 hours selected from Fine Arts outside the major, including 3 hours chosen from Art History 101, 201, 202; Dance 105; Media Arts 210; Theatre 105 or one 3-credit studio course offered by the Departments of Art and Art History, Theatre and Dance or Media Arts.
- c. 20 additional hours selected from courses offered by any college, including Fine Arts, but not including courses in Music or Music Education.

Subtotal 66

2. Courses within the major:

- a. six semesters of MUS 101 Concert Music with a grade of CR
- b. 16 hours in music theory: 150, 150L, 152, 152L, 250, 250L, 252, 252L
- c. 6 hours in music history: 361 and 362
- d. 4 hours in ensemble (See Ensemble Requirements for specific requirements)
- e. 4 hours of applied music in the principal instrument or voice
- f. 18 hours of music electives (not including courses for non-majors) selected with advisement of appropriate music faculty. No more than an additional 4 hours of ensemble credit nor an additional 12 hours of applied music can be applied toward the degree.

Subtotal 48

3. Additional courses in any field, including music (but not including courses for non-majors), selected with advisement of appropriate faculty, 14 hours.

Subtotal 14

Total 128

[Revised text]:

The Bachelor of Arts with a major in Music is designed for the study of music within a liberal arts curriculum. For the student who is not seeking a professional music degree but who desires a solid foundation in the study of music, the areas of musicianship, performance and history provide the core of courses toward a basic intellectual grasp of the art. Students who additionally seek to major in other areas (double major) or to take a large number of courses in a pre-professional program (pre-law, pre-medical, etc.) are encouraged to enroll in the Bachelor of Arts in Music. The Bachelor of Arts in Music cannot be used as a major in combination with the Bachelor of Music. The Bachelor of Arts in Music is permitted as a major in combination with the Bachelor of Music Education.

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- c. 6 hours in music history: 361 and 362
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- e. 4 hours of applied music in the principal instrument or voice
- f. 18 hours of music electives (not including courses for non-majors) selected with advisement of appropriate music faculty. No more than an additional 4 hours of ensemble credit nor an additional 12 hours of applied music can be applied toward the degree.

Subtotal 48

3. Additional courses in any field, including music (but not including courses for non-majors), selected with advisement of appropriate faculty, [6 hours.]

Subtotal [6]

Total [120]

Supplement to Form C for Bachelor of Arts in Music

Justification, Planning, Budget, Faculty Workload

<u>Justification for the Concentration</u>:

N/A. The concentration already exists.

Impact on Long-Range Planning:

It is hoped that the reduction in total number of credit hours will make the Bachelor of Arts in Music a more attractive degree plan and will result in an increase in the number of students pursuing the degree.

Budget Analysis and Faculty Workload Implications

There will be no impact on the budget. No new courses are being proposed.

3/11/2016 AutoCurric Form C

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Link to Curricula Forms Process Ma	inual				
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1721				
Fields marked with * are required					
Associated Forms exist?* No ▼ Faculty Contact* Jane Ellen Smith Department* Psychology	Initiator's Title* Coordinator Program Advisement Administrative Contact* Admin Email* rik	Rikk Murphy kk@unm.edu			
Proposed effective term Semester Fall ▼ Year 2016 ▼	Admin Phon	e * 277-5009			
	Course Information				
Select Appropriate Program* Graduate Degree Name of New or Existing Program* Ph.D. in Psy Select Category ★ Degree Select Action Revision ▼					
Exact Title and Requirements as they should a See current catalog for format within the respective	uppear in the catalog. If there is a change, upload we college (upload a doc/pdf file)	current and proposed requirements.*			
Grad Concentration Comparison.docx					
Does this change affect other departments	al program/branch campuses? If yes, indicate be	elow.			
Reason(s) for Request* (enter text below or up see attached	load a doc/pdf file)				
Reason for Request.docx					
Upload a document that inlcudes justification for workload implications.* (upload a doc/pdf file)	or the program, impact on long-range planning, c	detailed budget analysis and faculty			
Justification.docx					
Are you proposing a new undergraduate de	egree or new undergraduate certificate? If yes, u	upload the following documents.			
Upload a two-page Executive Summary author	rized by Associate Provost.* (upload a doc/pdf file	9)			
Upload memo from Associate Provost authoriz	zing go-ahead to full proposal.* (upload a doc/pdf	file)			
Approve and Sign Off	Send back to Initiator (Rikk Murphy) Comment on this Form	Committee Review			
Office of the Registrar MSC06 3650 1 Univer	sity of New Mexico Albuquerque, NM 87131-0001				

Current Catalog Language Proposed Catalog Language

Ph.D. in Psychology with M.S. Enroute

Concentrations: Clinical Psychology; Cognition, Brain and Behavior; Developmental Psychology; Evolutionary Psychology; Health Psychology; and Quantitative/Methodology. Each student is required to select a concentration.

Emphases: Health Psychology, Quantative Methodology. The emphases are an options for students in any concentration except for those in the same name.

Students interested in the Graduate Program are advised to have at least 15 credit hours in psychology, including one course in psychological statistics and either a laboratory course or independent research in psychology.

Although the Department awards the M.S. degree under **Plan I** (with thesis) according to the regulations set forth in earlier pages of this catalog, all screening of new applicants is done in terms of entry for the Ph.D. program. The department admits new students to the graduate program only for the fall semester of each year; exceptions to this procedure are rare. Since competition for the few available openings each year is strong, only students with excellent academic records as well as first-rate letters of recommendation are likely to succeed in gaining admission.

Graduate Record Examination (GRE) General Test scores are required as part of the application procedure. The GRE Psychology Subject test, although strongly recommended, is not required as part of the application procedure.

General requirements for the Ph.D. are set forth in earlier pages of this catalog. Regulations include a minimum of 48 credit hours of graduate credit (precise requirements depends upon area) with a

Ph.D. in Psychology with M.S. Enroute

Concentrations: Clinical Psychology; Cognition, Brain and Behavior; Developmental Psychology; Evolutionary Psychology; Health Psychology; and Quantitative/Methodology. Each student is required to select a concentration.

Emphases: Health Psychology, Quantitative Methodology. The emphases are options for students in any concentration except for those of the same name.

Students interested in the Graduate Program are advised to have at least 15 credit hours in psychology, including one course in psychological statistics and either a laboratory course or independent research in psychology.

Although the Department awards the M.S. degree under **Plan I** (with thesis) according to the regulations set forth in earlier pages of this catalog, all screening of new applicants is done in terms of entry for the Ph.D. program. The department admits new students to the graduate program only for the fall semester of each year; exceptions to this procedure are rare. Since competition for the few available openings each year is strong, only students with excellent academic records as well as first-rate letters of recommendation are likely to succeed in gaining admission.

Graduate Record Examination (GRE) General Test scores are required as part of the application procedure. The GRE Psychology Subject test, although strongly recommended, is not required as part of the application procedure.

General requirements for the Ph.D. are set forth in earlier pages of this catalog. Regulations include a minimum of 48 credit hours of graduate credit (precise requirements depend upon area) with a grade point average of 3.0 (B) or better, exclusive of thesis and dissertation credit hours; satisfactory performance on the doctoral comprehensive examination; and a dissertation accepted by the final oral examining committee.

The Department of Psychology considers both teaching and research to be essential aspects of doctoral training and, therefore, requires that all candidates have such experiences during their tenure. These requirements apply regardless of whether remuneration for such activities is received.

The Breadth Requirement

To ensure a breadth of training all students are required to complete a 12 credit hour (generally four graduate courses) breadth requirement. In addition to course work in the concentration, all doctoral students must complete History and Systems (511), and 9 credit hours (generally three graduate courses) of approved course work in an area outside of the student's concentration. These courses can be taken inside or outside the Department, but they **must** be outside the concentration, and they must be scholarly in nature. Clinical students satisfy the breadth requirement through the training requirements of the APA.

The Collateral Requirement

To satisfy the departmental requirement of a foreign language or comparable alternative requirement, students use the computer labs (503L and 504L) associated with the Statistics (501) and Experimental Design (502) courses, respectively.

grade point average of 3.0 (B) or better, exclusive of thesis and dissertation credit hours; satisfactory performance on the doctoral comprehensive examination; and a dissertation accepted by the final oral examining committee.

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Ph.D. in Psychology Concentrations and Emphases

Current Catalog Language Proposed Catalog Language

Required Core Courses (All Concentrations)

The following core courses are required in addition to any courses required in the student's concentration.

		Credit Hours
	First Year: Fall Semester	
PSY 501	Advanced Statistics	3
PSY 503L	Advanced Statistics Lab	1
PSY 505	Research Seminar	2
PSY 551	Graduate Problems	1-3
	First Year: Spring Semester	
PSY 502	Design and Analysis of Experiments	3
PSY 504L	Design and Analysis of Experiments Lab	1
PSY 551	Graduate Problems	1-3
	Additional required course that is sometimes taken during the first year:	
PSY 511	History and Systems of Psychology	3
	Note: This course does <i>not</i> have to be taken during a student's first year, but it must be taken prior to a student's comprehensive examinations.	
	Second Year: Spring Semester	
PSY 507	Teaching Seminar	2
	Note: This course <i>must</i> be taken prior to a teaching a course within the department.	

Required Core Courses (All Concentrations)

The following core courses are required in addition to any courses required in the student's concentration.

		Credit Hours
	First Year: Fall Semester	
PSY 501	Advanced Statistics	3
PSY 503L	Advanced Statistics Lab	1
PSY 505	Research Seminar	2
PSY 551	Graduate Problems	1-3
	First Year: Spring Semester	
PSY 502	Design and Analysis of Experiments	3
PSY 504L	Design and Analysis of Experiments Lab	1
PSY 551	Graduate Problems	1-3
	Second Year: Spring Semester	
PSY 507	Teaching Seminar	1
	Note: This course <i>must</i> be taken prior to teaching a course within the department.	

Reason for the Request

The department has decided to remove the requirement for PSY 511—History and Systems. After lengthy discussion, the faculty has determined that the information in PSY 511 is thoroughly covered in other courses. We have updated the Breadth Requirement as a result so there is no loss in overall credit hours required.

Justification, Impact, Budget, Faculty load

After lengthy discussion, the Psychology Department faculty has determined that the information in PSY 511—History and Systems is thoroughly covered in other courses and creates a redundancy for our students. The overall required credit hours or the Breadth requirement will not change as the Breadth requirement remains at 12 hours; students will just need to submit an additional course in place of PSY 511.

Additionally, the department requested that the credit hours for PSY 507-Teaching Seminar be reduced from two to one. This request (form A3392) was approved by the Registrar on 16 October 2015.

There is no impact on planning, budget or faculty load.

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Proposed effective term Semester Fall ▼ Year 2016 ▼		
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Approve and Sign Off	Send back to Initiator (Rikk Murphy) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Univer	rsity of New Mexico Albuquerque, NM 87131-0001	

Current Catalog Language Proposed Catalog Language

Clinical Psychology Concentration

Clinical students begin their core sequence in clinical psychology during their first year. The clinical core sequence is presented in the department's Guidelines for Graduate Students.

Beyond the departmental required courses, clinical students are required to complete the following courses:

		Credit Hours
PSY 532	Seminar in Psychopathology	3
PSY 533	Psychological Evaluation: Cognitive and Neuropsychology Functions	3
PSY 534	Psychological Evaluation Practicum	3
PSY 535	Psychological Evaluation: Personality Functions	3
PSY 538	Introduction to Clinical Science	3
PSY 602	Pre-Clinical Practicum	1
PSY 603	Case Formulation Practicum	3
PSY 610	Case Conference Practicum	1

Clinical Psychology Concentration

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Beyond the departmental required courses, clinical students are required to complete the following courses:

		Credit Hours
PSY 531	Pre-Clinical Practicum	1
PSY 532	Seminar in Psychopathology	3
PSY 533	Psychological Evaluation: Cognitive and Neuropsychology Functions	3
PSY 535	Psychological Evaluation: Personality Functions	3
PSY 538	Introduction to Clinical Science	3
PSY 610	Case Conference Practicum	1
PSY 631	Psychotherapy Practicum	1-3

Current Catalog Language Proposed Catalog Language

PSY 631	Psychotherapy Practicum	1-3
PSY 634	Ethics and Professional Issues in Clinical Psychology	3
PSY 636	Diversity Multicultural Perspectives in Clinical Psychology	3
PSY 637	Empirically Supported Treatments	3
PSY	Plus three approved Clinical Electives	9

There are additional courses required to satisfy the American Psychological Association (APA) foundation requirements. Current APA foundation requirements along with courses that may be used to satisfy them are presented in the department's Guidelines for Graduate Students.

PSY	Ethics and Professional Issues in Clinical	3
634	Psychology	3
PSY	Diversity Multicultural Perspectives in Clinical	3
636	Psychology	3
PSY	Empirically Supported Treatments	3
637	Empirically Supported Treatments	5
PSY	Plus four approved Clinical Electives	12

There are additional courses required to satisfy the American Psychological Association (APA) foundation requirements. Current APA foundation requirements along with courses that may be used to satisfy them are presented in the department's Guidelines for Graduate Students.

The department is reducing redundancy in our coursework and shortening the time to completion rate for our students by deleting two course requirements, substituting an elective for the PSY 511--History and Systems requirement (the department has made a separate Form C request—C1721 to remove the PSY 511 requirement for all our students), and updating a course number (PSY 602—Pre-clinical Practicum; Form A3441) to align it with our course numbering system.

Justification

During our recent site visit with the American Psychological Association, a number of recommendations were made to increase the efficiency of our Clinical graduate program. The APA visitors noted instances of redundancy in some of our coursework and that we have a high time-to-completion rate (7.5 years, compared to 5 years at many other institutions). To address these issues the Clinical program faculty is seeking to make several changes in the program including the elimination of three courses from the Clinical program requirements (PSY 511—History and Systems, PSY 534—Psychological Evaluation Practicum, and PSY 603—Case Formulation Practicum). The Clinical faculty concluded that the material in these courses is well covered in other required courses. The requirement for PSY 511—History and Systems is being eliminated across the department. In its place, the Clinical program will require an additional elective course.

Long-range Planning, Faculty impact.

There is no impact regarding long-range planning except that in making these changes the Clinical program's schedule can be a little more flexible in the courses it offers. The instructors of the courses being eliminated will be offering different courses in their place.

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Name of Initiator: Stephanie Forrest Email: forrest@unm.edu Phone Number: 505 277-7104 Date: 10-21-2015 Associated Forms exist?* No ▼ Initiator's Title* Professor: Computer Science Faculty Contact* Melanie Moses Administrative Contact* April Davidson Department* Computer Science Admin Email* aprild@unm.edu Branch Main Admin Phone* 277-1421	
Proposed effective term Semester Fall ▼ Year 2016 ▼	
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Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* CS 108L UNM Core Course (NEW) Select Category * UG Core Course ▼ Degree Type UG Select Action New ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements See current catalog for format within the respective college (upload a doc/pdf file)	s.*
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Does this change affect other departmental program/branch campuses? If yes, indicate below. Reason(s) for Request* (enter text below or upload a doc/pdf file) The requested change would add CS 108L to the UNM Science Core. Quantitative modeling has become an essential part of every nat science. Computation is now recognized as the third pillar of science along with theory and experiment. There are no existing courses dedicated to teaching computation in the UNM core.	ural
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file) unm-core-justification-cs4All-pgk2.pdf	
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.	
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file) Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)	
Approve and Sign Off Send back to Initiator (Stephanie Forrest) Committee Review Comment on this Form	
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CS 108L CS4All Introduction to Computational Science and Modeling

Justification for adding CS 108L to the UNM Core Curriculum October 30, 2015

Overview

CS 108L, Introduction to Computational Science and Modeling, is proposed to be in the Science area (Area 3: Physical and Natural Sciences) of the UNM core.

1 Rationale and Justification

Quantitative modeling has become an essential part of every natural science, and it is spreading quickly to the social sciences. Computational modeling is increasingly important as large data sets have become available and computers have become powerful enough to simulate complex mathematical models. Access to these new tools by today's students requires Computational Thinking, to understand the models they will be using in their work and to adapt them to new problems and domains. Computational thinking is a way of conceptualizing problems, going beyond simply programming a computer. It includes thinking at multiple levels of abstraction, decomposing a problem into subparts, understanding data representations, and using algorithms to design generic solutions to problems. These skills, along with basic competence in computer programming, are central to success in all STEM disciplines.

Computation is now recognized as the third pillar of science along with theory and experiment. CS4All provides an integrated experience, centered around scientific modeling as a new form of laboratory science, to bring these skills to all science students at UNM, and further making computational modeling available to all students, rather than expecting students to seek out intensive programming classes in computer science.

The NSF-funded NM-CS4All Program (a collaboration between the Santa Fe Institute Learning Lab and UNM Computer Science) developed Computer Science for All (UNM CS 108L) that explores interdisciplinary complex adaptive systems concepts and introduces computational thinking and programming through computer modeling and simulation. The existing CS 108L dual credit course uses a hybrid model, with online content provided through UNM and on-site high school teachers who lead modeling labs in their local high schools.

CS 108L has been taught continuously since 2008. While 85% of Computer Science majors nationwide are white males, a remarkable 75% of students in CS4All are from groups underrepresented in Computer Science (36% of students were female, 25% Native American, 17% Hispanic, and 21% of multiple races including an underrepresented group). Computer modeling and simulation were demonstrated to be an engaging way to introduce computational thinking while making explicit the relevance of Computer Science to STEM for discovery, analysis, innovation and modeling.

Benefit to UNM students: There are currently no computer science classes in the UNM core. Very few UNM graduates ever take a computer science class, and far less than 1% of UNM students major in Computer Science (CS). CS 108L does not compete directly with any existing UNM core

course or with other departments. Computational skills lead to excellent opportunities for students in the work force and in graduate programs in STEM disciplines.

2 Impact on Long-range Planning

The CS 108L hybrid course represents a novel educational model in the UNM core, which leverages the scalability of online lectures and effectiveness of small-group supervised intensive laboratory exercises. Success will require that CS 108L and the hybrid model be developed into a self-sustaining course with adequate instructional support, IT support, computer labs, and assessment tools. For example, TAs in the hybrid model will have greater responsibilities than is standard for large introductory courses, as they will be responsible for nearly 100% of the student contact hours by supervising the intensive computer laboratory sessions and holding extended office hours. To facilitate this transformation, the CS Department is seeking a \$1 million Howard Hughes Medical Institute (HHMI) grant titled *Transforming STEM Education through Computational Modeling*. In addition to supporting the integration of CS 108L into the UNM Core, the grant would also provide funds for developing related curricula, e.g., standalone computational modules tailored to specific STEM disciplines and a more intensive experience for students in the Honors College.

3 Current and predicted enrollments for the next three years

300 high school students have already earned UNM dual credit through for CS108L in the 2012 - 2014 school years, and 125 students are enrolled in the current (Fall 2015) semester. Based on this experience and our examination of enrollment numbers for core courses in other UNM STEM departments, we project enrollment after 5 years to be approximately 600 students per year. For Year 1, we propose to begin modestly by offering two sections each semester (25 students per section) for a total of 100 students in the first year. The plan is to increase enrollments gradually throughout the 5-year period, depending on demand, TA availability, and computer lab space.

4 Budget/Faculty Load Impact

The resource commitment includes:

- Faculty: At steady-state, the course will require 1/6 faculty line for instructor of record, oversight and development of course content, assessment, TA training and oversight, and handling student issues, e.g., academic integrity. Many existing tenure track faculty and lecturers are qualified to teach the course. In the early years, especially until the Program Coordinator is hired, the course will require 1/3 faculty line to make sure that all the executable content runs as expected, hire and manage T.A.'s, and manage course assessments and other logistics.
- Program Coordinator: 1/2-time course coordinator, to hire, train, and manage TAs, arrange for computer laboratories, install software, and handle other course logistics. This position will not be needed in Year 1, but will be added as the course grows to more sections. Anticipated budget is \$20,000 per year.
- Teaching Assistants: 1 TA per 25 students. Their workload includes 3 hours of student contact in computer lab, 3 hours of lab prep and training, 4 office hours, and 8-10 hours of grading and course assessment (25 programs per week, 20 minutes per program + assessment rubrics). Anticipated budget is \$8,000 \$11,000 per TA per semester including TA salary

and tuition (variation reflects salary and tuition differences for CS TAs at different academic stages).

• Computer Lab and IT support for NetLogo software: Each section of 25 students requires 3 hours of dedicated computer lab time per week. Thus, in Year 1, the class will need 6 hours per week of computer lab time for 100 students, scaling up to 36 hours per week for 600 students per year in Year 5.

5 Syllabus and Materials

The complete syllabus for CS 108L is online and available at http://www.cs4all.org/nm-cs108L-FINAL.

A summary of course topics is repeated here:

- Week 1: Introduction to NetLogo
- Week 2: Introduction to Computational Thinking
- Week 3: Introduction to Abstraction
- Week 4: Introduction to Modeling
- Week 5: Boolean Logic
- Week 6: Variables and Scope
- Week 7: Running Experiments with Computer Models
- Week 8: Review and Midterm Exam
- Week 9: Algorithms
- Week 10: More Algorithms
- Week 11: Recursion
- Week 12: Epidemic Modeling
- Week 13: Ecosystem Modeling
- Week 14/15: Project Work
- Week 16: Review and Final Exam

6 HED Competencies

Area 3 Physical and Natural Sciences, HED Competencies

1. Describe the process of scientific inquiry.

Each week of the class, students complete a program or model in which they must specify a set of rules, examine the outcome, test hypotheses and analyze data. For example, in Week 6, students build an ecosystem simulation to explore predator-prey dynamics among sharks, fish and plankton. Here they experiment with the probability of plankton occurrence to understand how that affects fish and subsequently shark populations. In this process, they rely on the evidence built into their own model, as the HED states rather than "authority, tradition, doctrine, or intuition."

2. Solve problems scientifically.

For this competency, students are expected to solve problems using methods that would be used by scientists in their discipline. Again, the laboratory exercises that the students must complete each week test this skill. For example, in Week 9, students explore the efficiency of the algorithms they develop. Students create programs that remove green patches from an image, they are challenged to do this in less than 1700 steps, and the fewer steps they take, the more points they earn. Similarly in Week 10 students design, implement and experiment with sorting algorithms in an attempt to find a fast algorithm. Students test which approach is fastest. Computer scientists in the real world are continually plagued with issues of efficiency in the devices they create and the applications that run on those devices, worrying about battery life, latency, and calculation times.

3. Communicate scientific information.

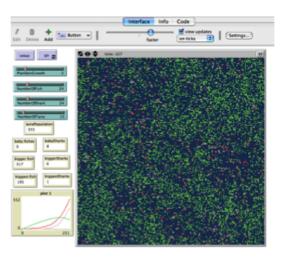
The ability to provide a clear and concise explanation of each program and how to use and experiment with it is assessed in every assignment. Students must explain the reasoning and methodology behind the models they develop, as well as things to notice and experiment with, using the built in "Info" explanation panel in NetLogo. An example is shown in Figure 1. Students must also write code that is adequately "commented," that is, it is has built in documentation explaining what each part of a program does. Communication is an explicitly graded component of each laboratory exercise.

4. Apply quantitative analysis to scientific problems.

Quantitative analysis is a core competency when describing complex systems and computational models. Although many of the models used in the class are relatively simple, the analysis techniques learned are similar versions of what scientists do with actual data every day. For example, in Week 12, students create an epidemic model, understanding how disease could spread across a population, and how doctors or hospitals could limit that spread. In this assignment students need to analyze the output of their models, including creating graphs representing the numbers of healthy and sick agents over time.

5. Apply scientific thinking to real world problems.

Finally, students are asked to critically analyze processes and data related to real world problems they investigate throughout the class. From readings of real case studies to studying disease and ecosystems through their models, each of the programming assignments relates to a contemporary scientific problem. Additionally, students are exposed to the academic research of many of the faculty in the UNM CS Department through short case study videos of CS faculty.



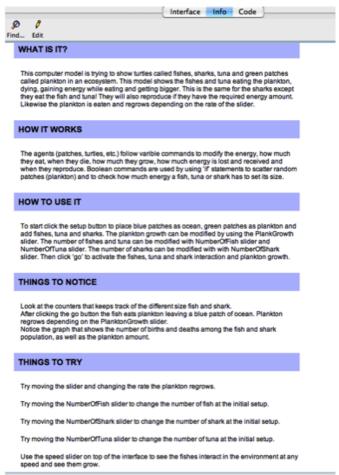


Figure 1: Example student ecosystem model written in the Netlogo programming language. The left panel shows the interactive interface for experimentation and the right panel shows the "Info" tab with the student's written explanation of how the program works, how it should be used and things to notice and experiment with.

7 Example "Annual Report on Assessment"

UNM General Education Core Curriculum Course Level Assessment Plan Template

College/School/Branch Name: School of Engineering

Department Name: Computer Science

Dept. Assessment Contact: Lance Williams

UNM Core Area this template is being filled out for: Area 3 Physical and Natural Sciences

This template is based on the established procedure for compilation and aggregation of assessment data as part of the UNM Computer Science ABET (Accreditation Board for Engineering and Technology) accreditation.

- 1. Course Number and Title: CS 108L, Introduction to Computational Science and Modeling Sample Student Learning Outcomes (SLOs):
 - (a) SLO 1: Students learn the fundamental computer science concept of abstraction.

Abstraction represents the essential features of a problem while suppressing the details of underlying representations or calculations. Students learn that abstraction allows them to model large complex systems more easily. For example, many computer languages allow the user to draw a square on screen. This is abstracted in the sense that you do not write a program that literally changes the color of each LED in that square region, but rather set the dimensions of the square and a color, and some other system deals with deciding which LEDs to set in what parts of the screen.

Addresses UNM/HED Area III

Competencies: i, iii

(b) SLO 2: Students are introduced to the concept of algorithms and expand their knowledge of looping.

By exposing students to algorithms and loops, students begin to see the building blocks of how larger programs can be developed. Loops allow code to be executed repeatedly. So, instead of writing code which is repetitive, students build conditions into their programs that determine how often or how many times a certain segment of code should be executed.

Addresses UNM/HED Area III

Competencies: ii, iii

(c) SLO 3: Students explore Sorting Algorithms and learn about Agentsets and Lists.

Sorting algorithms and data structures are two additional fundamental building blocks

of computer science. Sorting algorithms take basic concepts like lists and loops, and show how different methods for looping through a list of items allow for different speeds in sorting that list. Certain algorithms can be understood to be more or less efficient, and importantly the students measure, analyze, and report on those different efficiencies.

Addresses UNM/HED Area III Competencies: i, ii, iii, iv

(d) SLO 4: Students explore algorithms further by learning about search algorithms which are commonly used in our world today (i.e., by Google). Students explore how algorithms are analyzed and are introduced to the important computer science concept of recursion.

By understanding search algorithms, students get another taste of how simple algorithms power many of the technologies we use every day. This helps them to see how the knowledge they are acquiring in CS108L can be applied in real-world systems. Students gain an appreciation for recursion by building fractal trees using a recursive algorithm to see how elaborate designs can be created using only a few simple lines of code.

Addresses UNM/HED Area III Competencies: iii, iv, v

(e) SLO 5: Students form teams to develop modeling projects. The students will pick a problem to model, abstract the problem, develop the model and run experiments by executing the model.

The final projects in CS 108L help students develop an assignment that cuts across all five of the HED science competencies. They develop a problem to model, design the model for that problem in NetLogo, and analyze and write a short report on the model.

Addresses UNM/HED Area III Competencies: i, ii, iii, iv, v

Area 3 Physical and Natural Sciences, HED Competencies

- i. Describe the process of scientific inquiry.
- ii. Solve problems scientifically.
- iii. Communicate scientific information.
- iv. Apply quantitative analysis to scientific problems.
- v. Apply scientific thinking to real world problems.
- 2. How will each SLO be assessed? Please describe the assignment (essay, test, presentation, etc). Will all the SLOs be assessed in one assignment or several? As evidence, please attach a blank copy of the assessment instrument(s) and the rubric(s) used for scoring.

Each of the SLOs above are aligned with a different week of class. Each week of class (when there is not an exam) there is also a programming challenge.

For example, the first SLO above on understanding the concept of abstraction is linked with Week 3 of the curriculum. In that week there are six video lectures: one on the concept of abstraction, one on representing colors in computers, two on CS constructs (local variables, introduction to looping), and two on higher level topics that connect these questions to real world problems. The programming assignment that week involves creating spiraling art, reminiscent of physical spirograph toys. The rubric for that week is shown here (as an example):

Grading Rubric [20 points total]:

[A: 1 points]: Submit one file to your instructor: NetLogo source code with the file name: W3.firstname.lastname.nlogo.

[B: 2 points]: The first few lines of your code tab are comments including your name, the date, your school, and the assignment name (Lab 3: Spiraling Art using a Repeat Loop).

[C: 2 points]: The code in the code tab of your program is appropriately documented with "inline comments."

[D: 5 points]: Your program includes a description of what your program does in the Info tab. Please describe the over all program, each procedure and anything else you want someone to know about your program!

[E: 5 points]: When the user loads your program and clicks the "setup" button followed by the "go" button, your program draws an image that uses at least one repeat loop that repeats at least 100 times drawing at least one line each iteration (there must be at least one line of code in the command block of each repeat loop). You are unique and your drawing should be unique too! To get any of these points, your drawing must be different from the drawing made by every other student in your class section.

[F: 5 points]: The procedure in your "go" button uses at least one let statement AND there is at least one set statement in the repeat loop. The variable changed in the set statement must be used in at least one of the following: forward, right, left, or setxy command.

Each week of the class has detailed information on the learning objective of that week, the complete videos, the programming assignments, and other related information. For a complete listing of each week's information, see: http://www.cs4all.org/nm-cs108L-FINAL

3. How will the results of assessment in this course be compiled and aggregated? That is, explain where the results will be collected and stored at the end of each semester and who will compile and aggregate the results for sharing and reporting.

Asse	ssment Point:	293	Social and Ethi	cal Issues in Te	chnology		
Asse	ssment Semester:	Fall 2015					
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Figure 2: Example assessment document for CS 293, ABET Requirement E

The UNM CS department already has an established and clear procedure for compilation and aggregation of assessment data and information. As part of our ABET (Accreditation Board for Engineering and Technology) accreditation, we conduct semesterly assessments across our undergraduate curriculum. The assessment of CS 108L would simply be added to this assessment schedule. The faculty of record for the class would be in charge of compiling assessments from across the course TAs and adding them to our current system. A screenshot of that system is shown here, with an example assessment from our ABET process.

- 4. How will the results of the assessment in this course be shared with faculty for analysis and discussion? Evidence for this step must be provided. Provide a paragraph addressing the following questions:
 - Who will share the aggregated results to faculty?

CS 108L will have a faculty instructor of record for the course who is dedicated to oversight and development of the content and student success (detailed above). This faculty member will provide the results of the annual assessment to the faculty.

• Who will participate in the analysis?

The analysis will be led by the faculty instructor of record and will involve all of the TAs who helped to run the lab sections, and those professors who have contributed to content updates. There will be additional input from the Computer Science Department Undergraduate Curriculum Committee.

How will discussions of analysis be recorded and communicated?

Discussions of the analysis will be recorded within the minutes of the Undergraduate Curriculum Committee (UCC). All of the UCC assessment discussions have minutes taken as part of the department's ABET accreditation and assessment process.

• Who will collect and store evidence of discussions of analysis? Where? UCC assessment discussions have minutes taken as part of the department's ABET accreditation and assessment process. These discussions, the assessments themselves, ABET rubrics, graduate degree rubrics, as additional rubrics (we would add the CS 108L rubrics) are all stored online, in a drive that UCC members, as well as other faculty members who are required to assess areas of our program, have access to.

- 5. How will results of assessment in this course be used for improvement? Evidence for this step must be provided. (This is known as closing the feedback loop and it is an essential component of assessment.) Provide a paragraph addressing the following questions:
 - Who participates in this discussion/decision-making?

The same participants who are involved in the analysis will be involved in the discussion and decision-making around course improvements. This process, along with all undergraduate-related curricular changes, will be led by the Undergraduate Curriculum Committee (UCC). When changes are proposed for CS 108L they will be discussed by the faculty who have participated in creating the video lectures for the course, as well as current (and possibly past) TAs. Other members of the department, or faculty members whose students take the course (particularly in Biology, Chemistry, Physics) who are interested in suggesting improvements aimed at benefiting their students will of course be welcomed and their input will be solicited.

• How will recommendations be recorded and communicated?

The faculty of record for CS 108L will be responsible for leading the process of taking recommendations from (and written by) the UCC and applying them to the course materials. For changes to the laboratory/programming exercises, these changes may be made by the TAs with supervision of the faculty member, but all TAs and others teaching and using the course materials would be notified of the changes.

Due to the distributed nature of this class (video lectures and online programming assignments which are used by the TAs and students at UNM, but also others in the community and high schools across the state) we intend to specifically "version" the course materials. That means updates to the materials will be well-documented on the website, and each update will include a set of "release notes" detailing any changes and updates to the materials, available for all to see.

• When will this discussion/decision making take place? (i.e., at the end of each semester, at the end of the Spring semester, etc.)

Each semester the UCC meets to review assessments complete in the past semester. CS108L would join this list of assessments to review.

Additionally, every sixth year our department is re-evaluated for our ABET accreditation. At this point we re-evaluate our curriculum as a whole and in future cycles CS108L would also be included in this discussion. Allowing us to not just evaluate the course as a stand-alone entity, but how it relates to the overall goals of UNM Computer Science education more broadly.

• Who will collect and store evidence of course improvement? Where?

These materials will be collected and stored just as assessments and UCC meeting minutes are on, in the online assessment space. The faculty of record will be in charge of completing the UNM core course assessment form based on these materials and with an aim to highlight specific improvements based on the assessment data.

3/11/2016 AutoCurric Form C

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Forms

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Link to Curricula Forms Process Ma	nual	
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1727	, pos
Fields marked with * are required		
Name of Initiator: Tina Armijo Email: tmarmijo	Initiator's Title* Unit Administrator Anderson A Administrative C Admin Email*	Date: 10-23-2015 cademic Accounting contact* Tina Armijo tmarmijo@unm.edu in Phone* 277-1890
Proposed effective term Semester Spring ▼ Year 2016 ▼		
	Course Information	
Select Appropriate Program* Graduate Degree Name of New or Existing Program* Master of Ac Select Category * Concentration ▼ Degree Select Action Revision ▼ Exact Title and Requirements as they should a See current catalog for format within the respective	ccounting - Advanced Concentration e Type ppear in the catalog. If there is a change, uplo	ad current and proposed requirements.*
Advanced Accounting Catalog Description.docx		
Reason(s) for Request* (enter text below or uping This change will allow all of the MACCT concent students will have a basic core of courses they much can choose from. MGMT 635 to be added to core	trations (Advanced, Tax and Information Assura ust take and then they will have a list of additior	ance) to be more in line with each other. All hal specific concentration related courses the
Upload a document that inlcudes justification for workload implications.* (upload a doc/pdf file) Form C - MACCT Advanced 2015.docx	or the program, impact on long-range planning	g, detailed budget analysis and faculty
☐ Are you proposing a new undergraduate de Upload a two-page Executive Summary author	egree or new undergraduate certificate? If ye	
Upload memo from Associate Provost authoriz	zing go-ahead to full proposal.* (upload a doc/	odffile)
Approve and Sign Off	Send back to Initiator (Tina Armijo) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Univers	sity of New Mexico Albuquerque, NM 87131-0001	

Advanced Accounting

This concentration is designed for individuals who have already earned a B.B.A. with a concentration in accounting. The Advanced Concentration consists of five graduate core accounting courses, a minimum of four graduate accounting courses and two approved graduate accounting or business electives.

Course requirements: Students must take the following 15 credit hours of accounting coursework: MGMT 546, 554, 555, 635 and one from the following tax courses: MGMT 547, 590, 591, 592, or 593. At least 12 additional credit hours of accounting coursework can come from the following: MGMT 548, 553, 559, 594 (special topics in accounting only), 640 and 643.

The GMAT/GRE is waived for students who have an undergraduate major in accounting from an AACSB-accredited school with a minimum of a 3.25 GPA in both upper-division classes and accounting classes. Students must fulfill all other admission requirements.

FORM C Degree/Program Change

Anderson School of Management internal approval form

Name of Initiator: Tina Armijo Email: tmarmijo@unm.edu Date: 3/18/2015

Phone: 277-1890 Initiator's Rank/Title: Unit Administrator

Associated Forms Exist: Yes No

Faculty Contact: Leslie Oakes Administrative Contact: Tina Armijo

Department: Department of Accounting

Admin Email: tmarmijo@unm.edu Admin Phone: 277-1890

Branch: Main

Proposed effective term Semester: Spring Year: 2016

Course Information

Circle Program: UG GR

Name of new or existing program:

Select Category: Degree Major Minor Concentration

Certificate Emphasis Department Subject code

UG Core Course

Degree type: Masters of Accountancy

Select Action: New Revision Deletion Name Change

Exact Title and Requirements as they should appear in the catalog:

Advanced Accounting

This concentration is designed for individuals who have already earned a B.B.A. with a concentration in accounting. The Advanced Concentration consists of five graduate core accounting courses, a minimum of four graduate accounting courses and two approved graduate accounting or business electives.

Course requirements: Students must take the following 15 credit hours of accounting coursework: MGMT 546, 554, 555, 635 and one from the following tax courses: MGMT 547,

590, 591, 592, or 593. At least 12 additional credit hours of accounting coursework can come from the following: MGMT 548, 553, 559, 594 (special topics in accounting only), 640 and 643.

The GMAT/GRE is waived for students who have an undergraduate major in accounting from an AACSB-accredited school with a minimum of a 3.25 GPA in both upper-division classes and accounting classes. Students must fulfill all other admission requirements.

Does this change affect other departmental program/branch campuses? Yes _____ No X Reason(s) for request:

This change will allow all of the MACCT concentrations (Advanced, Tax and Information Assurance) to be more in line with each other. All students will have a basic core of courses they must take and then they will have a list of additional specific concentration related courses they can choose from. MGMT 635 is being added to the core now to fulfill an upcoming AACSB requirement of a Data Analytics course in the program.

Statements that include justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications:

Two of the new courses, Advance Auditing and Data Analytics (currently Decision & Business Intelligence Systems) will put the program in line with newer AACSB standards in addition to giving the students a better well rounded accounting education. By students taking the same basic core they will be more successful sitting for the CPA in New Mexico and surrounding states. There will be one additional adjunct hired to teach the Advanced Auditing course one semester a year and a shift in scheduling will allow for a current accounting professor to teach the Data Analytics course each year. No other resources will be needed.

Approved Dept. Chair Date		Approved C & P Committee Chair	
	 Date	Submitted by Date	

3/11/2016 AutoCurric Form C

Office of the Registrar

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Link to Curricula Forms Process Ma	nual	
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1728	<u>, </u>
Fields marked with * are required		
Name of Initiator: Tina Armijo Email: tmarmijo Associated Forms exist?* Yes ▼ Faculty Contact* Leslie Oakes Department* Anderson School of Management Branch MAIN	Initiator's Title* Unit Administrator Anderson A Administrative (Ad	Date: 10-23-2015 cademic Accounting Contact* Tina Armijo min Email* tmarmijo in Phone* 277-1890
Proposed effective term Semester Spring ▼ Year 2016 ▼		
	Course Information	
Select Appropriate Program* Graduate Degree Name of New or Existing Program* Master of Act Select Category * Concentration ▼ Degree Select Action Revision ▼ Exact Title and Requirements as they should a See current catalog for format within the respective	ccounting - Tax Concentration e Type ppear in the catalog. If there is a change, uple	pad current and proposed requirements.*
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Reason(s) for Request* (enter text below or up This change will allow all of the MACCT concen students will have a basic core of courses they m can choose from. MGMT 635 is being added to the program.	load a doc/pdf file) trations (Advanced, Tax and Information Assurations take and then they will have a list of additio	ance) to be more in line with each other. All nall specific concentration related courses the
Upload a document that inloudes justification for workload implications.* (upload a doc/pdf file)	or the program, impact on long-range plannin	g, detailed budget analysis and faculty
Form C - MACC_Tax_2015.pdf		
Are you proposing a new undergraduate de	egree or new undergraduate certificate? If ye	s, upload the following documents.
Upload a two-page Executive Summary author	ized by Associate Provost.* (upload a doc/pd	ffile)
Upload memo from Associate Provost authoriz	zing go-ahead to full proposal.* (upload a doc/	pdf file)
Approve and Sign Off	Send back to Initiator (Tina Armijo) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 University	sity of New Mexico Albuquerque, NM 87131-0001	

Tax Accounting

This concentration is designed for individuals who have already earned a B.B.A. with a concentration in accounting wishing to pursue advanced studies in taxation. The Tax Concentration consists of five graduate core accounting courses, a minimum of four graduate tax accounting courses and two approved graduate accounting or business electives.

Course requirements: Students must take the following 15 credit hours of accounting coursework: MGMT 546, 554, 555, 635 and one from the following tax courses: MGMT 547, 590, 591, 592, or 593. At least 12 additional credit hours of accounting taxation coursework can come from the following: MGMT *542, 547, 590, 591, 592, and 593.

*If students have taken the undergraduate equivalent of any graduate course, they may not repeat the course for credit at the graduate level.

The GMAT/GRE is waived for students who have an undergraduate major in accounting from an AACSB-accredited school with a minimum of a 3.25 GPA in both upper-division classes and accounting classes. Students must fulfill all other admission requirements.

FORM C Degree/Program Change

Anderson School of Management internal approval form

Name of Initiator: Tina Armijo

Email: tmarmijo@unm.edu

Date: 3/18/2015

Phone: 277-1890

Initiator's Rank/Title: Unit Administrator

Associated Forms Exist:

No

Faculty Contact: Leslie Oakes

Administrative Contact: Tina Armijo

Department: Department of Accounting

Admin Email: tmarmijo@unm.edu Admin Phone: 277-1890

Branch: Main

Proposed effective term

Semester: Spring

Year: 2016

Course Information

Circle Program:

UG



Name of new or existing program:

Select Category:

Degree

Major

Minor

Concentration

Certificate

Emphasis

Department

Subject code

UG Core Course

Degree type: Masters of Accountancy

Select Action:

New

Revision

Deletion

Name Change

Exact Title and Requirements as they should appear in the catalog:

Tax Accounting

This concentration is designed for individuals who have already earned a B.B.A. with a concentration in accounting wishing to pursue advanced studies in taxation. The Tax Concentration consists of five graduate core accounting courses, a minimum of four graduate tax accounting courses and two approved graduate accounting or business electives.

Course requirements: Students must take the following 15 credit hours of accounting coursework: MGMT 546, 554, 555, 635 and one from the following tax courses: MGMT 547, 590, 591, 592, or 593. At least 12 additional credit hours of accounting taxation coursework can come from the following: MGMT *542, 547, 590, 591, 592, and 593.

*If students have taken the undergraduate equivalent of any graduate course, they may not repeat the course for credit at the graduate level. The GMAT/GRE is waived for students who have an undergraduate major in accounting from an AACSB-accredited school with a minimum of a 3.25 GPA in both upper-division classes and accounting classes. Students must fulfill all other admission requirements.

Does this change affect other departmental program/branch campuses? Yes _____ No X Reason(s) for request:

This change will allow all of the MACCT concentrations (Advanced, Tax and Information Assurance) to be more in line with each other. All students will have a basic core of courses they must take and then they will have a list of additional specific concentration related courses they can choose from. MGMT 635 is being added to the core now to fulfill an upcoming AACSB requirement of a Data Analytics course in the program.

Statements that include justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications:

Two of the new courses, Advance Auditing and Data Analytics (currently Decision & Business Intelligence Systems) will put the program in line with newer AACSB standards in addition to giving the students a better well rounded tax accounting education. By students taking the same basic core they will be more successful sitting for the CPA in New Mexico and surrounding states, especially those going into the taxation field. There will be one additional adjunct hired to teach the Advanced Auditing course one semester a year and a shift in scheduling will allow for a current accounting professor to teach the Data Analytics course each year. No other resoures are needed.

Approved Dept. Chair Date

Approved Associate Dean Date

Mary Maria Wyu-Approved C & P. Committee Chair 3/Bate/16

Submitted by Date

faculty Chair, Date Nick Flor

Updated 7/2014, DFM

3/11/2016 AutoCurric Form C

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Link to Curricula Forms Process Ma	nual	
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1729	J _j
Fields marked with * are required		
Name of Initiator: Tina Armijo Email: tmarmijo	Initiator's Title* Unit Administrator Anderson A Administrative C Admin Email*	Date: 10-23-2015 cademic Accounting contact* Tina Armijo tmarmijo@unm.edu in Phone* 277-1890
Proposed effective term Semester Spring ▼ Year 2016 ▼		
	Course Information	
Select Appropriate Program* Graduate Degree Name of New or Existing Program* Master of Act Select Category * Concentration ▼ Degree Select Action Revision ▼ Exact Title and Requirements as they should a See current catalog for format within the respective	ccounting - Information Assurance Concentration e Type ppear in the catalog. If there is a change, uplo	
Information Assurance Catalog Description.docx		
Does this change affect other departmenta	al program/branch campuses? If yes, indicate	below.
Reason(s) for Request* (enter text below or up This change will allow all of the MACCT concen- students will have a basic core of courses they m can choose from. MGMT 635 added to the core so	trations (Advanced, Tax and Information Assura ust take and then they will have a list of additior	nnce) to be more in line with each other. All nal specific concentration related courses the
Upload a document that inlcudes justification for workload implications.* (upload a doc/pdf file)	or the program, impact on long-range planning	g, detailed budget analysis and faculty
Form C - MACC_IA_2015.pdf		
☐ Are you proposing a new undergraduate de	egree or new undergraduate certificate? If ye	s, upload the following documents.
Upload a two-page Executive Summary author	ized by Associate Provost.* (upload a doc/pdf	file)
Upload memo from Associate Provost authoriz	zing go-ahead to full proposal.* (upload a doc/	odf file)
Approve and Sign Off	Send back to Initiator (Tina Armijo) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Univers	sity of New Mexico Albuquerque, NM 87131-0001	

Information Assurance

This concentration is designed for individuals who have already earned a B.B.A. with a concentration in accounting, and who wish to pursue advanced studies in attesting to and ensuring the integrity of financial information. This concentration consists of a minimum of 24 credit hours of graduate level accounting coursework with 12 hours in information assurance accounting, and 9 credit hours of non-accounting graduate accounting coursework, with a minimum of 3 credit hours in information assurance.

Course requirements: Students must complete the following **information assurance accounting** courses: MGMT 546, 554, 642, either 641 or 635, one from the following tax courses: MGMT 547, 590, 591, 592, or 593 and complete the following **information assurance** course: MGMT 636. At least 6 credit hours of **accounting coursework** from the following courses: MGMT 551/2, 553, 555, 594 (special topics in accounting only), and 641 and 6 credit hours of **non-accounting coursework** from the following courses: MGMT 637, 646, 647, 648 and 649. Students not meeting the overall concentration requirements with the above classes can do so with additional graduate accounting and non-accounting courses in consultation with the concentration advisor.

The GMAT/GRE is waived for students who have an undergraduate major in accounting from an AACSB-accredited school with a minimum of a 3.25 GPA in both upper-division classes and accounting classes. Students must fulfill all other admission requirements.

Degree/Program Change FORM C

Anderson School of Management internal approval form

Name of Initiator: Tina Armijo

Email: tmarmijo@unm.edu

Date: 3/18/2015

Phone: 277-1890

Initiator's Rank/Title: Unit Administrator

Associated Forms Exist:

(Yes)

No

Faculty Contact: Leslie Oakes

Administrative Contact: Tina Armijo

Department: Department of Accounting

Admin Email: tmarmijo@unm.edu Admin Phone: 277-1890

Branch: Main

Proposed effective term

Semester: Spring

Year: 2016

Course Information

Circle Program:

UG



Name of new or existing program:

Select Category:

Degree

Major

Minor

Concentration

Certificate

Emphasis

Department

Subject code

UG Core Course

Degree type: Masters of Accountancy

Select Action:

New

Revision

Deletion

Name Change

Exact Title and Requirements as they should appear in the catalog:

Information Assurance

This concentration is designed for individuals who have already earned a B.B.A. with a concentration in accounting, and who wish to pursue advanced studies in attesting to and ensuring the integrity of financial information. This concentration consists of a minimum of 24 credit hours of graduate level accounting coursework with 12 hours in information assurance accounting, and 9 credit hours of non-accounting graduate accounting coursework, with a minimum of 3 credit hours in information assurance.

Course requirements: Students must complete the following information assurance accounting courses: MGMT 546, 554, 642, either 641 or 594 (special topics in accounting only), one from the following tax courses: MGMT 547, 590, 592, or 593 and complete the following information assurance course: MGMT 636. At least 6 credit hours of accounting coursework from the following courses: MGMT 551/2, 553, 555, 594 (special topics in accounting only), and 641 and 6 credit hours of non-accounting coursework from the following courses: MGMT 637, 646, 647, 648 and 649. Students not meeting the overall concentration requirements with the above classes can do so with additional graduate accounting and non-accounting courses in consultation with the concentration advisor.

The GMAT/GRE is waived for students who have an undergraduate major in accounting from an AACSB-accredited school with a minimum of a 3.25 GPA in both upper-division classes and accounting classes. Students must fulfill all other admission requirements.

Does this change affect other departmental program/branch campuses? Yes _____ No X Reason(s) for request:

This change will allow all of the MACCT concentrations (Advanced, Tax and Information Assurance) to be more in line with each other. All students will have a basic core of courses they must take and then they will have a list of additional specific concentration related courses they can choose from.

Statements that include justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications:

Two of the new courses, Advance Auditing (MGMT 555) and Data Analytics (MGMT will put the program in line with newer AACSB standards in addition to giving the students a better well rounded accounting education, especially Advance Auditing which has been needed in the concentration for some time. By students taking the same basic core they will be more successful sitting for the CPA in New Mexico and surrounding states. There will be one additional adjunct hired to teach the Advanced Auditing course one semester a year and a shift in scheduling will allow for a current accounting professor to teach the other course one semester a year. No other resources are needed.

Approved Dept. Chair Date	May Mar Approved C & P Co	mmittee Chair	<u>3</u> /15/1/ Date
Approved Associate Dean Date WEY 4/17/15 Updated 7/2014, DFM Faculty Chair, Date Nick Flor	Submitted by	Date	

3/11/2016 AutoCurric Form C

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Curriculum Workflow



Link to Curricula Forms Proce	ss Manual		
	F	ROGRAM CHANGE ORM C n Number: C1732	PDF J
Fields marked with * are required			
Name of Initiator: Elizabeth Anne Castill	o Email: eac@unm.ed	du Phone Number: 505 277-5050	Date: 10-26-2015
Associated Forms exist?* Yes	▼ Initiator's Title	* Admin Assistant 3: Sch Arch Planning	Gen Admin
Faculty Contact* Renia Ehr	renfeucht	Administrative Contact* Elizabe	eth Castillo
Department* Community and Regional	Planning	Admin Email* eac	@unm.edu
Branch Sch of Architecture and	Planning	Admin Phone	* 277-5050
Proposed effective term Semester Fall ▼ Year 20	016 ▼		
	Cou	urse Information	
Select Appropriate Program* Graduate Name of New or Existing Program* (Du Select Category ★ Degree Select Action Revision ▼		▼ atin American Studies	
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✓ Does this change affect other depart	rtmental program/brand	ch campuses? If yes, indicate below.	
Reason(s) for Request* (enter text below Two associated Form Bs and one associated Horm Bs and one associated Horm Bs and one associated to 6CH, AND CRP 598, iTown Studio, var American Studies section of catalog desconcurrently with this Form C. Regarding Resources and Master of Public Administrant declined to have it included in the cuthese programs is attached here in ONE correspondence).	ciated Form C, explained ted Form Bs are to create riable 1CH to 6CH. See a cribing this dual degree. A dual degrees, the MCRF tration. Water Resources irriculum of their respectiv	here. Add an exit requirement option une the new exit studios CRP 597, Capstone attached supplement showing proposed A separate Form C for the stand alone MP program has two other existing dual destand Public Administration both were cove MWR/MCRP and MPA/MCRP dual destands.	e Planning Studio, variable credit 1C revision in catalog text for Latin CRP degree is being submitted gree options with: Master of Water ntacted about the added exit option egrees. Correspondence from both of
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Justification Exit Studios.pdf			
Are you proposing a new undergra	duato dograo or now un	dergraduate certificate? If yes, upload	the following decuments
	-		the following documents.
Upload a two-page Executive Summary	/ authorized by Associa	ite Provost.* (upload a doc/pdffile)	
Upload memo from Associate Provost	authorizing go-ahead to	o full proposal.* (upload a doc/pdf file)	
Approve and Sign Off		iator (Elizabeth Anne Castillo) nent on this Form	Committee Review

Office of the Registrar MSC06 3650 1 University of New Mexico Albuquerque, NM 87131-0001

https://curric.unm.edu/forms/?form=formC&formnum=1732

Supplement to Form C: Dual Master of Arts in Latin American Studies and Master of Community and Regional Planning, Exit Requirements (Addition of an exit option under Plan II) Current and Revised Catalog Text

Note: Revisions in the right hand column appear in red text.

Current Text:

M.A. in Latin American

Studies/M.C.R.P.: The joint master's program in Latin American Studies and Community and Regional Planning is designed for students who are interested in the professional practice of planning in a Latin American context.

The Community and Regional Planning Program at the University of New Mexico is dedicated to planning and advocating for sustainable communities and ecosystems throughout the Southwest region and Latin America. Graduates of this dual degree program possess the knowledge and skills necessary to support planning by diverse human communities throughout the Western Hemisphere. Students in this dual degree program learn to assist Latin American communities to create community-based plans and programs that sustain and enhance their culture, resource base, built environment and economic vitality. The program promotes participatory processes that respond to community identities and development needs.

Prerequisites to the program are competence in either Spanish or Portuguese (at least two years of undergraduate course work or equivalent language training) and basic course work in economics (micro and/or macro) and statistics. Deficit courses in economics and statistics may be made up after admission to the program.

The program requires a minimum of 54 credit hours of graduate credit (compared to 72 credit hours if the two degrees were pursued separately). The required graduate credit hours include: 1) CRP 578, a 3 credit hour bridge

Revised Text:

M.A. in Latin American

Studies/M.C.R.P.: The joint master's program in Latin American Studies and Community and Regional Planning is designed for students who are interested in the professional practice of planning in a Latin American context.

The Community and Regional Planning Program at the University of New Mexico is dedicated to planning and advocating for sustainable communities and ecosystems throughout the Southwest region and Latin America. Graduates of this dual degree program possess the knowledge and skills necessary to support planning by diverse human communities throughout the Western Hemisphere. Students in this dual degree program learn to assist Latin American communities to create community-based plans and programs that sustain and enhance their culture, resource base, built environment and economic vitality. The program promotes participatory processes that respond to community identities and development needs.

Prerequisites to the program are competence in either Spanish or Portuguese (at least two years of undergraduate course work or equivalent language training) and basic course work in economics (micro and/or macro) and statistics. Deficit courses in economics and statistics may be made up after admission to the program.

The program requires a minimum of 54 credit hours of graduate credit (compared to 72 credit hours if the two degrees were pursued separately). The required graduate credit hours include: 1) CRP 578, a 3 credit hour bridge

seminar; 2) 22 credit hours of thesis and course work in Community and Regional Planning; 3) 24 credit hours of course work in Latin American Studies; and 4) 5 elective credit hours of either CRP or LTAM graduate course work. For the 22 credit hours in Community and Regional Planning, students must complete CRP 500, 510, 511, 545 (or 580), 588, and 599. Students must also demonstrate capacity in two Community and Regional Planning competency areas, as determined in consultation with their advisors: 1) Providing a real-time professional deliverable to a client, and 2) Using spatial analysis to analyze planning problems and develop planning solutions. For the 24 credit hours in Latin American Studies, students must complete a minimum of 9 credit hours in each of two concentrations. Each candidate is required to prepare a thesis (Plan I). The Master's examination consists of an oral examination at the final presentation of the thesis; this examination includes coverage of the student's two concentrations in Latin American Studies. The student's Committee on Studies, comprised of at least two faculty members in one concentration and one faculty member from the second concentration, preside over the examination. The Chair of the Committee on Studies must be a faculty member from Community and Regional Planning.

seminar; 2) 22 credit hours of course work, which includes thesis or capstone studio, in Community and Regional Planning; 3) 24 credit hours of course work in Latin American Studies: and 4) 5 elective credit hours of either CRP or LTAM graduate course work. For the 22 credit hours in Community and Regional Planning, students must complete CRP 500, 510, 511, 545 (or 580), 588, and 599 (or 597 or 598). Students must also demonstrate capacity in two Community and Regional Planning competency areas, as determined in consultation with their advisors: 1) Providing a real-time professional deliverable to a client, and 2) Using spatial analysis to analyze planning problems and develop planning solutions. For the 24 credit hours in Latin American Studies, students must complete a minimum of 9 credit hours in each of two concentrations. Each candidate is required to prepare a thesis (Plan I) or complete 6 credit hours of a Community and Regional Planning capstone studio (Plan II). The Master's examination consists of an oral examination at the final presentation of the thesis or at completion of the capstone studio; this examination includes coverage of the student's two concentrations in Latin American Studies. The student's Committee on Studies, comprised of at least two faculty members in one concentration and one faculty member from the second concentration, preside over the examination. The Chair of the Committee on Studies must be a faculty member from Community and Regional Planning.

Elizabeth Anne Castillo

From: Renia Ehrenfeucht

Sent: Monday, October 12, 2015 4:24 PM

To: Elizabeth Anne Castillo **Subject:** FW: dual degree with crp

Renia Ehrenfeucht Professor + Director Community and Regional Planning School of Architecture + Planning University of New Mexico rehrenfeucht@unm.edu

From: William Fleming < fleming@unm.edu

Date: Monday, October 12, 2015 at 4:17 PM

To: Renia Ehrenfeucht < rehrenfeucht@unm.edu

Subject: Fwd: dual degree with crp

Sent from my iPhone

Begin forwarded message:

From: Robert Berrens < rberrens@unm.edu>
Date: October 12, 2015 at 3:16:57 PM MDT
To: William Fleming < fleming@unm.edu>
Cc: Robert Berrens < rberrens@unm.edu>
Subject: Re: dual degree with crp

Hi Bill

Thanks for your inquiry. The Water Resources Program (WRP) at UNM offers the interdisciplinary Masters in Water Resources (MWR) degree, and participates with Community and Regional Planning in offering the dual MCRP-MWR degree. As part of the MWR, as well as in the MCRP-MWR, WRP requires that all students take the WR 573 Water Resources III - Field Problems (4 cr) course as part of our core sequence. This course is a field-based course taught by an interdisciplinary group with a STUDIO focus: there are few lectures, a mix of field collection (chemistry, biology, hydrology) and lab testing, students work in groups emphasizing collaborative and cooperative learning, and considerable student responsibility to collectively produce and present the final product -typically a rapid watershed assessment report from the summer field site(s).

Let me know if you need anything else.

Sincerely,

Bob

Robert Berrens Director, Water Resources Program Professor, Department of Economics University of New Mexico 505 250-5989

On 10/12/15 1:40 PM, William Fleming wrote:

Hi Bob,

We are in the process of submitting a form C to add a studio to our exit requirements. As you already require a summer field studio, there is no need to add a CRP studio to the dual degree requirements. Could you please send me an email confirming this? Our director, Renia Ehrenfeucht, would like to attach a note from you to the form C.

Thanks much, Bill

Elizabeth Anne Castillo

From: Gene Henley

Sent: Thursday, October 22, 2015 11:18 AM

To: Elizabeth Anne Castillo

Subject: RE: Dual MPA-MCRP Guidelines

Liz.

Thanks for the reminder.

I believe SPA would opt out at this time.

We too are currently reviewing our capstone options and until they decide what to do re the Plan III option as well as a couple of other things, I think it's best we not add another issues at this time.

Have a great day and a better week!

Gene V. Henley
Director of Operations and Advisement
School of Public Administration
O) 505.277.1095
F) 505.277.2529
C) 505.385.6999
http://spa.unm.edu//

Please expect a 3 business day response time, not including weekends or holidays.

Please include your student ID number and full name in your correspondence.

IMPORTANT: FERPA guidelines indicate you MUST email from your @unm.edu account if you are a current UNM student. For more information about FERPA, please visit this website: http://ed.gov/policy/gen/guid/fpco/ferpa/students.html.

From: Elizabeth Anne Castillo

Sent: Thursday, October 22, 2015 10:48 AM
To: Gene Henley <ghenley@unm.edu>
Subject: RE: Dual MPA-MCRP Guidelines

Gene,

Did you get my email RE: MCRP adding a capstone studio exit option? I think Ric at some point told you about this, but basically, we are adding under Plan II a course called CRP 597, Capstone Planning Studio. So, exit requirement options will be: Plan I: CRP 588 (2CH)+CRP 599/Thesis (6CH) –OR-- Plan II: CRP 588+CRP 589/Prof Proj (6CH) –OR-- Plan II: CRP 588+CRP 597/Capstone Studio (6CH).

The Registrars office told me that each dual degree can either include the new capstone studio option as part of the dual degree, in which case I would submit an extra Form C for that dual degree, OR a dual degree can decline adding the new option, in which case we need some communication from the dual program indicating their opt out. I then would attach that communication of opt out to our lone MCRP Form C.

Please let me know if PADM dual will opt out of the new option, or if you would like me to submit a Form C for MCRP/MPA to add the new option. Thank you.

Liz

From: Gene Henley

Sent: Thursday, October 22, 2015 10:14 AM

To: James Richardson

Cc: Elizabeth Rowe; Elizabeth Anne Castillo **Subject:** RE: Dual MPA-MCRP Guidelines

Ric,

Here are the proposed revisions from our meeting yesterday.

This, I believe, honors the present dual degree approved by both faculties; adjusts the total credit hours to the new 60 credit hour requirement and incorporates the new CRP course. Please let me know what you think.

Have a great day and a better week!

Gene V. Henley
Director of Operations and Advisement
School of Public Administration
O) 505.277.1095
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C) 505.385.6999
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From: Elizabeth Anne Castillo

Sent: Monday, October 05, 2015 10:59 AM **To:** Gene Henley <ghenley@unm.edu>

Cc: James Richardson < irich@unm.edu >; Elizabeth Rowe < erowe@unm.edu >; Renia Ehrenfeucht

<rehrenfeucht@unm.edu>

Subject: Dual MPA-MCRP Guidelines

Gene,

Given the recent MCRP change from 50CH to 48CH, with the **MPA/MCRP Dual Degree** going from 62CH to <u>60CH</u> (*minus CRP 521, fulfilling two competencies, and adding 3CH of additional electives*), I have revised the numbers and added the competencies language in a 2010 version of the MPA/MCRP Guidelines which I had in my files, highlighting in yellow

where I made changes. Please let me know if you have a more updated document and/or if the one attached here is okay to use. Thanks so much.

Liz

Elizabeth A. Castillo
Administrative Assistant 3
Community and Regional Planning Program
School of Architecture & Planning, MSC04 2530
1 University of New Mexico
Albuquerque, NM 87131
(505) 277-5050
FAX (505) 277-0076
Pearl Hall, Room 119

This curriculum change will have no budgetary impact. The CRP program has planned course sequencing and frequency to be able to offer capstone studios with no changes to faculty workload. No additional resources are necessary.

3/11/2016 AutoCurric Form C

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Curriculum Workflow



Link to Curricula Forms Process M	lanual				
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1733				
Fields marked with * are required					
Name of Initiator: Roberta Murray Email: bm Associated Forms exist?* No Faculty Contact* Ranjit Bos Department* ASM/MID Branch Mai	se S	* Admin Assistant 3: A Admin	anderson Schools istrative Contact Admin Email* bm	* Bobbie Murray	
Proposed effective term Semester Fall ▼ Year 2016 ▼			Admir	HOHE 211-0430	
	Co	ourse Information			
Select Appropriate Program* Graduate Deg Name of New or Existing Program* MBA - Ma Select Category ★ Concentration ▼ Deg Select Action Revision ▼ Exact Title and Requirements as they should	inagement Informa ree Type MBA			rent and proposed requir	rements.*
See current catalog for format within the respec					
Form C MIS course info.pdf					
Does this change affect other department	ntal program/brar	nch campuses? If ye	s, indicate below	'.	
Reason(s) for Request* (enter text below or to add MGMT 633, 638, 644 and 645 to the list			nts.		
Upload a document that inlcudes justification workload implications.* (upload a doc/pdf file)	n for the program	, impact on long-raກ ຸ	ge planning, deta	iled budget analysis and	faculty
Form C MIS implications.pdf					
Are you proposing a new undergraduate	degree or new u	ndergraduate certific	cate? If yes, uploa	ad the following documen	ıts.
Upload a two-page Executive Summary author	orized by Associ	ate Provost.* (upload	d a doc/pdf file)		
Upload memo from Associate Provost autho	rizing go-ahead t	o full proposal.* (uplo	oad a doc/pdf file)		
Approve and Sign Off		o Initiator (Roberta ment on this Form		Committee Review	
Office of the Registrar MSC06 3650 1 Univ	/ersity of New Mexico	Albuquerque, NM 87131-000	01		

Exact Title and Requirements as they should appear in the catalog:

Management Information Systems – 12 credit hours

One semester of programming experience (i.e, CS 152L, MGMT 330, or equivalent) is a prerequisite for the concentration.

Requirements: MGMT 634 and 637

In addition to the two required courses, students must select two additional courses from the following: MGMT 630, 631, 632, 633, 635, 636, 638, 639, 644, 645, 647 and 648. Multiple MGMT 639 sections may be used to satisfy concentration requirements as long as the topics vary. Students are strongly encouraged to work with the faculty concentration advisor as early as possible in their degree program to plan a suitable program of study.

No budgetary implications (MGMT 633,644, 645 and 638 are currently being offered). 644 and 645 are currently offered as 639, Form Bs have been created and approved by the faculty to address this change.

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Curriculum Workflow



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	DEGREE/PROGRA FORM C Form Num		2
Fields marked with * are required			
Name of Initiator: Maria Daniela Wilken Ema Associated Forms exist?* No ▼ Faculty Contact* Jennifer Thacher Department* Economics Branch	Initiator's Title* Coord	Phone Number: 505 277-5560 ,Graduate Programs: Economics Administrative Contact* Lea Admin Email* Imayo Admin Phone* 50	Department ah Hardesty o@unm.edu
Proposed effective term Semester Spring ▼ Year 2016 ▼]		
	Course In	formation	
Select Appropriate Program* Graduate Degrame of New or Existing Program* M.A. Economoselect Category * Degree ▼ Degree Select Action Revision ▼			
Exact Title and Requirements as they should a See current catalog for format within the respect			ent and proposed requirements.*
Form C proposed changes.docx			
Does this change affect other department	tal program/branch can	npuses? If yes, indicate below.	
Reason(s) for Request* (enter text below or up Please see attached document	pload a doc/pdf file)		
Form C memo 30 credit hours 16-17.docx			
Upload a document that inlcudes justification workload implications.* (upload a doc/pdf file)	for the program, impac	t on long-range planning, detaile	d budget analysis and faculty
justification memo Form C.docx			
☐ Are you proposing a new undergraduate of	degree or new undergra	aduate certificate? If yes, upload	the following documents.
Upload a two-page Executive Summary autho	rized by Associate Pro	vost.* (upload a doc/pdf file)	
Upload memo from Associate Provost author	izing go-ahead to full pr	roposal.* (upload a doc/pdf file)	
Approve and Sign Off		ator (Daniela Wilken) on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Unive	ersity of New Mexico Albuquero	que, NM 87131-0001	



MSC 05-3060 1 University of New Mexico Albuquerque, NM 87131-0001

Form C

Proposed changes

Current	Proposed requirements
M.A. Plan II (Examination (No Thesis)	M.A. Plan II (Examination (No Thesis)
Option	Option
1. A minimum of 32 hours of approved	1. A minimum of 30 hours of approved
course work. Courses taken on a	course work. Courses taken on a
Credit/No Credit basis do not count	Credit/No Credit basis do not count
towards the minimum required 32 hours	towards the minimum required 30 hours
of course work.	of course work.



Form C

Reason for request:

In 2015, after a comparison with peer universities, UNM reduced the number of credit hours required for a Plan II (Examination) MA from 32 to 30 credit hours. Each department can decide whether to reduce to 30 credit hours or maintain the current 32. The economics faculty has voted to decrease the number of credit hours to 30 for MA primarily to benefit PhD students who earned an MA enroute.

Under current requirements, PhD students must earn a total of 52 credit hours, exceeding the required 49 credit hours by the Department.

Under the current 32 hour requirement, a student who wishes to earn an MA enroute must do the following:

- 1. Earn at least 32 course credit hours for the MA +
- 2. Earn an additional 18 credits post-MA
- 3. Earn at least 48 hours total

	Current system		Proposed system	
Semester	# of credits	Additional	# of credits	Additional
	counted	credits counted	counted	credits counted
	towards MA	towards PhD	towards MA	towards PhD
F1	12	1	12	1
S1	9		9	
F2	9		9	
S2	3	6		9
F3		6		6
S3		6		3
Total	33	19	30	19
Total credits	52 49		.9	
taken				

As the table above illustrates, because of the credit hours associated with our courses, a PhD student earning an MA enroute will earn 33 credit hours for the MA and 19 additional hours for the PhD, thus accumulating a total of 52 credit hours. Thus, under the current system, a PhD student is effectively taking one more class (of 3 credit hours) than is really needed for the 49 hour requirement. Under the proposed 30 hour MA, requirement (1) will change to 30 hours and the other requirements will remain to the same. As the table below illustrates, because of the credit hours associated with our courses, a PhD student earning an MA enroute will earn 30 credit hours for the MA and 19 additional hours for the PhD, thus accumulating a total of 49 credit hours. Thus, reducing the required MA credits to 30 reduces required PhD coursework by one three-credit course.

We thank you for your time and consideration with this request.

DEPARTMENT of ECONOMICS



MSC 05-3060 1 University of New Mexico Albuquerque, NM 87131-0001

We do not expect any budgetary impacts from this change. The department has very few terminal MA students (i.e., 1 every 1-2 years). The vast majority are PhD students and pay the same tuition whether they take 6 or 9 credit hours. We ran a number of scenarios under different assumptions of entering cohort sizes, percentage of students in each concentration, and number of course offerings and believe that on average there will not be any impacts on hitting minimum graduate course enrollment requirements.

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Curriculum Workflow



			PDF
	DEGRE	EPROGRAM CHANGE FORM C	<i>J</i>
		Form Number: C1738	
Fields marked with * are required			
Name of Initiator: Elizabeth Anne Cast	illo Email: eac@un	nm.edu Phone Number: 505 277-5050	Date: 10-27-2015
Associated Forms exist?* Yes		Title* Admin Assistant 3: Sch Arch Planning	
Faculty Contact* Renia E		Administrative Contact* Eliza	
Department* Community and Regiona		Admin Email* ea	
Branch Sch Architecture and	ŭ	Admin Phon	
Duran and offer the terms			
Proposed effective term Semester Fall ▼ Year 2	2016 ▼		
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Name of New or Existing Program* Mo			
-	▼ Degree Type Mas	sters	
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Exact Title and Requirements as they See current catalog for format within the		e catalog. If there is a change, upload curre upload a doc/pdf file)	ent and proposed requirements.*
Supplement to Form C MCRP IP Conce	entration.pdf		
Does this change affect other dep	partmental program/l	branch campuses? If yes, indicate below.	
Indigenous Planning, to the MCRP deg 2)Natural Resources and Environmenta text. Five Form Bs will be submitted to rewhich will serve as approved electives Methods; CRP 539, Indigenous Space, and CRP 546, Contemporary Indigenous more accurate title and a more logical condigenous Planning TO CRP 534, Fou	ted Form A, and one a ree program. Currentl al Planning, and 3)Ph egularize CRP course for this new concentra Place and Mapping; of us Architecture. One F course number, with condations of Indigenou	pdf file) associated Form C, explained below. Adding tly, the MCRP degree has three concentration hysical Planning and Design. See attached see offerings which historically have been taug ation. These five proposed courses are: CRF CRP 540, Pueblo Design and Planning; CR Form A will be submitted to change an existin content remaining the same. That proposed F us Planning, which will be the required found or three (existing) foundations courses. Associated	ns: 1)Community Development, upplement showing revised catalog ht as topics courses (CRP 570), and 2538, Community Participatory P 541, Navajo Design and Planning; ng CRP course title and number to a Form A will change CRP 572, dations class in the new concentration
Upload a document that inlcudes justi workload implications.* (upload a doc/		ram, impact on long-range planning, detail	ed budget analysis and faculty
Justification MCRP IP Concentration Fo	orm C.pdf		
☐ Are you proposing a new undergr	aduate degree or ne	w undergraduate certificate? If yes, uploa	d the following documents.
Upload a two-page Executive Summa	ry authorized by Ass	sociate Provost.* (upload a doc/pdffile)	
Upload memo from Associate Provos	t authorizing go-ahe	ead to full proposal.* (upload a doc/pdf file)	
Approve and Sign Off	Send back to	Initiator (Elizabeth Anne Castillo) omment on this Form	Committee Review

Supplement to Form C: Master of Community and Regional Planning, Concentrations (Addition of Indigenous Planning Concentration) Current and Revised Catalog Text

Note: Revisions in the right hand column appear in red text.

Current Text:

Course of Study and Degree Completion

The M.C.R.P. degree program is a two-year course of study for which a minimum of 48 credit hours is required. This program requires four parts for the completion of this degree: 48 credit hours of course work as indicated in the program of study; the Graduate Review; demonstrated competency in two areas described below; and a thesis or professional project to be presented in public.

Students enrolled in this program are allowed to take up to 12 credit hours at the graduate level in other UNM programs.

Incoming graduate students are required to have taken statistics and economics as prerequisites for this program. If a student has not taken these courses, they may take them simultaneously with their first semester of graduate course work in the program, and must have the prerequisites completed before beginning their second semester in the program.

Required Graduate Courses

		Credit Hours
	Core Course Requirements	
CRP	Planning Theory and Process	4

Revised Text:

Course of Study and Degree Completion

The M.C.R.P. degree program is a two-year course of study for which a minimum of 48 credit hours is required. This program requires four parts for the completion of the degree: 1) 48 credit hours of course work as indicated in the program of study; 2) the Graduate Review; 3) demonstrated competency in two areas described below; and 4) a thesis or professional project to be presented in public, or completion of a capstone studio. [Note: a separate Form C is being submitted outlining the addition of capstone studio exit options – document you are reading now will serve as the supplement for that Form C, as well].

Students enrolled in this program are allowed to take up to 12 credit hours at the graduate level in other UNM programs.

Incoming graduate students are required to have taken statistics and economics as prerequisites for this program. If a student has not taken these courses, they may take them simultaneously with their first semester of graduate course work in the program, and must have the prerequisites completed before beginning their second semester in the program.

Required Graduate Courses

		Credit
		Hours
	Core Course Requirements	
CRP	Planning Theory and Process	4

CRP 511 CRP 545	Analytical Methods for Planning Land Use Controls	3
-or- CRP 580	Community Growth and Land Use Planning Total	

Concentration Course Requirements

- Students are required to select an area of concentration in Community Development, Natural Resources and Environmental Planning, or Physical Planning and Design.
- Students are required to take a concentration Foundations course (3 credit hours) and a second methods course (3 credit hours) from a cluster of course options in their concentration area.
- Total of 6 credit hours of Concentration Requirements.

Elective Course Requirements

• Students must take 21 credit hours of approved elective course work.

Exit Course Requirements

		Credit Hours
II .	Professional Project/Thesis Preparation Seminar	2
CRP 599	Plan I Master's Thesis	

	Total	13
- <i>or</i> - CRP 580	Community Growth and Land Use Planning	3
CRP 545	Land Use Controls	
CRP 511	Analytical Methods for Planning	4
CRP 510	Planning Communication Workshop	2
500		

Concentration Course Requirements

- Students are required to select an area of concentration in Community Development, Natural Resources and Environmental Planning, Physical Planning and Design, or Indigenous Planning.
- Students are required to take a concentration Foundations course (3 credit hours) and a second methods course (3 credit hours) from a cluster of course options in their concentration area.
- Total of 6 credit hours of Concentration Requirements.

Elective Course Requirements

• Students must take 21 credit hours of approved elective course work.

Exit Course Requirements

		Credit Hours
11	Professional Project/Thesis Preparation Seminar	2
CRP	Plan I	

-or-		
	Plan II [see Note above about separate Form C]	6
CRP	separate Form CJ	
589	Professional Project	
-or-		
CRP		
597	Capstone Planning Studio	
-or-		
CRP		
598	iTown Studio	
	Total	8

A total of 48 credit hours are required for completion of the M.C.R.P. Degree

The Graduate Review

The Graduate Review should take place at the student's request after the completion of 12 credit hours of graduate study but must take place before the student can enroll in the thesis/professional project preparation course. A faculty committee consisting of the student's advisor and one other CRP faculty member reviews the student's prior academic records, proposed Program of Studies, evidence of courses focused in a concentration, a Student Self-Assessment filled out by the student, and the thesis or professional project proposal. The student shall also show completion of courses fulfilling the competencies in the student's chosen concentration. Assessment of the student's performance in the program to date and proposals for future work guide the committee's recommendations for the student's remaining efforts to complete the M.C.R.P. degree and the approval of the Program of Studies form.

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Spatial Analysis and Professional Deliverable Competencies

Students in the M.C.R.P. program must demonstrate competency in the following two areas. Students have the option of completing internships or projects, and completing spatial analysis courses or other work to demonstrate competency in these areas. This requires faculty consultation to determine course work or internships that help demonstrate each competency, and approval from students' advisors.

- Competency 1: Providing a real-time professional deliverable to a client.
- Competency 2: Using spatial analysis to analyze planning problems and develop planning solutions.

To fulfill Competency 2 (spatial analysis), students may complete either CRP 583 Introduction to Geographic Information Systems, or Geographic Information Systems courses from other UNM departments, with faculty advisor approval. Students are responsible for consulting with their advisor regarding the best way to meet this requirement.

Thesis or Professional Project

The thesis/professional project is a formal document prepared in consultation with the student's faculty committee and presented in public. The thesis/professional project committee, which is nominated by the candidate, evaluates the scope of the work, the quality of analysis and the content of the findings and/or recommendations. The committee also evaluates the student's understanding of his or her chosen field of study and area of concentration, as well as strengths in accomplishing graduate studies.

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To fulfill Competency 2 (spatial analysis), students may complete either CRP 583 Introduction to Geographic Information Systems, or Geographic Information Systems courses from other UNM departments, with faculty advisor approval. Students are responsible for consulting with their advisor regarding the best way to meet this requirement.

Thesis, Professional Project, or Capstone Studio

The thesis/professional project is a formal document prepared in consultation with the student's faculty committee and presented in public. Students who choose to complete the capstone studio option will complete six credit hours of studio work and be evaluated by a committee. The thesis/professional project/capstone studio committee evaluates the scope of the work, the quality of analysis and the content of the findings and/or recommendations. The committee also evaluates the student's understanding of his or her chosen field of study and area of concentration, as well as strengths in

Licensing for Planners

There are no licensing requirements for planners in New Mexico. Planners may be certified through the American Institute for Certified Planners (AICP).

Dual Degrees

Joint Dual Degrees Between the M.C.R.P. and Other Programs

Formal dual-degree programs have been established with Latin American Studies, the School of Public Administration, and the Water Resources program. The dual-degree programs allow a student to complete both degrees in approximately 75% of the time it would take for the individual degrees in sequence. The dual degree option is attractive for advanced students who have field experience and who wish to accelerate their graduate education.

Other Degree Opportunities

Individual dual degree opportunities are also available with other departments on campus. The program of study is developed by the student and supported by the participating departments. Students have developed dual degrees with Architecture, Public Health, Economics, and Landscape Architecture. Students should initiate an individual dual degree by talking with their faculty advisor.

accomplishing graduate studies.

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Master's in Community and Regional Planning Indigenous Planning Concentration (Proposed)

Justification for the Program

Expertise and resources are already in place at UNM to create this an Indigenous Planning concentration, which will contribute to the overall strength and appeal of UNM's MCRP program. There is student demand for this concentration and faculty support both within MCRP and other departments on campus. Professors Theodore (Ted) Jojola and Laura Harjo areas of specialization are in Indigenous Planning. A third MCRP tenure-track faculty in Latin American Development and Indigeniety is currently being hired. In addition, the MCRP annually admits 3-6 students who are Indigenous or are invested in Indigenous Planning. Through the School of Architecture and Planning's Indigenous Design and Planning Institute, it coordinates projects and networks with tribal communities and professional organizations throughout the University, statewide, nationally and internationally.

Impact on Long-Range Planning

The addition of a MCRP concentration in Indigenous Planning represents a desire to embrace indigenous worldviews and methodologies as a distinct and legitimate subfield of planning. The request to add this concentration represents an effort to build on expertise in the school and keep the planning program innovative and cutting-edge. The most recent MCRP accreditation report cited its efforts in Indigenous Planning as an area of distinction. This concentration would be the only degree opiton of this type in the nation.

Budget Analysis and Faculty Workload Implications

There will be no impact on budget or faculty load by the addition of Indigenous Planning as a concentration in the MCRP program.

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Curriculum Workflow



Link to Curricula Forms Process Ma	anual	
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1740	P.O.
Fields marked with * are required		
Name of Initiator: Kateri Ruth Morris Email: k	katerim@unm.edu Phone Number: 505 661-4693 L	Date: 10-27-2015
Associated Forms exist?* No ▼	Initiator's Title* Admin Assistant to the Dean: Los Alam	os Branch
Faculty Contact* Kay Willerton	Administrative Contact* Ka	ateri Morris
Department* Instruction		
Branch UNM-Los Alamos	s Admin Phone* 505	-661-4693
Proposed effective term Semester Fall ▼ Year 2016 ▼]	
	Course Information	
Select Action	Childhood Multicultural Education - LA ree Type AA appear in the catalog. If there is a change, upload curre	ent and proposed requirements.*
Does this change affect other department Reason(s) for Request* (enter text below or u Delete ECME program because there are no s FormC_AAECME-deletion_approval.pdf		
	for the program, impact on long-range planning, detail	ed budget analysis and faculty
☐ Are you proposing a new undergraduate of	degree or new undergraduate certificate? If yes, upload orized by Associate Provost.* (upload a doc/pdf file)	d the following documents.
Upload memo from Associate Provost author	rizing go-ahead to full proposal.* (upload a doc/pdf file)	
Approve and Sign Off	Send back to Initiator (Kateri Ruth Morris) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Unive	ersity of New Mexico Albuquerque, NM 87131-0001	

Justification for Deletion of the AA Degree in Early Childhood Multi-Cultural Education

The Associate of Arts Degree in Early Childhood Multi-Cultural Education at UNM-Los Alamos is being deleted. The last student in the degree program received her degree in Spring 2015. We currently have no enrollment in the degree program, and no faculty on staff who are assigned to teach these courses. There have been no inquiries about the program for two years, so we see no need to continue the program. Since we have no students in the program, the last date to award the degree is not needed.

CURRENT CATALOG LISTING FOR ASSOCIATE OF ARTS

Early Childhood Multicultural Education

About the Program

The Early Childhood Multicultural Education program is designed for individuals who wish to work in the field and/or continue their studies towards a baccalaureate degree. The baccalaureate program at the University of New Mexico in ECME leads to licensure for teachers working with children from birth to age eight. This associate of arts degree, plus experience, meets the requirements for qualifying as a center director as specified in the New Mexico Child Care Facilities Licensing Regulations. The program addresses the seven general early child education competency areas. Students seeking to transfer are encouraged to consult with an academic advisor.

A student must have a minimum of 67 credit hours with a minimum grade point average of 2.0. At least 15 of 67 credit hours must be UNM–LA Catalog credit courses taken in residence. It is strongly recommended that the student check the specific requirements for the B.S. at the particular institution to which they plan to transfer in order to make the best choices among the optional courses below. *Note: Students planning to transfer to a four year institution should check grade point requirements at that institution.

General Education Requirements

WRITING AND SPEAKING (9 CREDIT HOURS)
☐ ENGL 110: Accelerated Composition (3)
or
☐ ENGL 112: Composition II (3)
or
☐ ENGL 113: Enhanced Composition (3) and
☐ ENGL 120: Composition III (3)
And Select one course from:
☐ CJ 130: Public Speaking (3)
☐ CJ 220: Communication for Teachers (3)
☐ ENGL 290: Introduction to Professional Writing (3)
MATHEMATICS (AT LEAST 3 CREDIT HOURS)
Select from the following:
□ MATH 111: Mathematics for Elementary and Middle School Teachers I
or
□ MATH 112: Mathematics for Elementary and Middle School Teachers II
☐ MATH 121: College Algebra (3)
☐ MATH 129: A survey of Mathematics (3)
☐ STAT 145: Introduction to Statistics (3)
☐ MATH 162: Calculus I (4)
LABORATORY SCIENCES (8 CREDIT HOURS)

```
Select from the following:
     ☐ BIOL 110/112L: Biology/Biology Laboratory (Non-Majors) (3/1)
     ☐ BIOL 201: Molecular and Cell Biology (4)
     ☐ BIOL 202: Genetics (4)
     ☐ CHEM 111: Elements of General Chemistry (4)
     ☐ CHEM 121/123L: General Chemistry I(3)/General Chemistry I Lab (1)
     ☐ CHEM 122/124L: General Chemistry II(3)/General Chemistry II Lab (1)
     ☐ ASTR 101/111L: Introduction to Astronomy/Astronomy Laboratory (3/1)
     ☐ PHYC 102/112L: Introduction to Physics/Physics Laboratory (3/1)
     ☐ EPS 101/105L: Physical Geology/Physical Geology Laboratory (3/1)
     ☐ ENVS 101/102L: The Blue Planet/Blue Planet Lab (3/1)
     □ NTSC 261L: Physical Science (4)
     □ NTSC 262L: Life Science (4)
     □ NTSC 263L: Environmental Science (4)
SOCIAL/BEHAVIORAL SCIENCES (6 CREDIT HOURS)
   Select 2 courses from the following:
     ☐ ANTH 130: Cultures of the World (3)
     ☐ ECON 105: Introductory Macroeconomics (3)
     ☐ ECON 106: Introductory Microeconomics (3)
     ☐ POLS 200: American Politics (3)
     ☐ PSY 105: General Psychology (3)
     ☐ SOC 101: Introduction to Sociology (3)
     ☐ AMST 182: Introduction to American Studies (3)
     ☐ AMST 185: Introduction to Race, Class & Ethnicity (3)
     ☐ ANTH 101: Introduction to Anthropology (3)
     ☐ GEOG 102: Human Geography (3)
     ☐ LING 101: Introduction to the Study of Language (3)
     ☐ POLS 110: The Political World (3)
HUMANITIES (6 CREDIT HOURS)
   Select from the following:
     ☐ HIST 101: Western Civilization (3)
     ☐ HIST 102: Western Civilization (3)
     ☐ HIST 161: History of the United States (3)
     ☐ HIST 162: History of the United States (3)
     ☐ HIST 260: History of New Mexico (3)
     ☐ ENGL 150: The Study of Literature (3)
     ☐ ENGL 211: Topics in Literature (3)
FINE ARTS (3 CREDIT HOURS) (6 CREDIT HOURS)
   Select from the following:
     ☐ ARTH 101: Introduction to Art (3)
     ☐ ARTH 201: History of Art I (3)
     ☐ ARTH 202: History of Art II (3)
```

□ DANC 105: Dance Appreciation (3) □ MUS 139: Music Appreciation (3) □ MUS 298: Music for Elementary Teachers (3) □ PHIL 156: Reasoning and Critical Thinking (3) □ THEA 122: Introduction to Theatre (3) FOREIGN LANGUAGE (3 CREDIT HOURS) Select one UNM Core Curriculum Course.	
TOTAL GENERAL EDUCATION REQUIREMENTS	38-39 CREDIT HOURS
Technical Core Requirements	
EDUCATION CORE COURSES (29 CREDIT HOURS)	
☐ ECME 101: Child Growth, Development and Learning (3)	
☐ ECME 103: Health, Safety and Nutrition (2)	
☐ ECME 111: Family and Community Collaboration I (3)	
☐ ECME 115: Guiding Young Children (3)	
☐ ECME 117: Curriculum Development and Implementation I (3)	
☐ ECME 117L: Curriculum Development and Implementation Practicum I (2)	
☐ ECME 202: Introduction to Reading and Literacy Development (3)	
☐ ECME 217: Curriculum Development and Implementation II (3)	
☐ ECME 217L: Curriculum Development and Implementation Practicum II (2))
☐ ECME 220: Assessment of Children and Evaluation of Programs I (3)	
☐ ECME 230: Professionalism (2)	
TOTAL EDUCATION CORE COURSES	29 CREDIT HOURS

67-68 CREDIT HOURS

TOTAL CREDIT HOURS

Long-term planning and budgetary impact

There is no budgetary impact caused by the deletion of this degree. Only one student was awarded this degree last year. No full-time or part-time instructor will lose employment as a result of the deletion of this degree program.

Memorandum

To: Kay Willerton, Interim Dean of Instruction

From: Dennis Davies-Wilson, (Library) Director

Date: October 19, 2015

Re: Library impact for deletion of AA Program in Early Childhood Multi-Cultural Education

Form C

Proposed changes will not impact the library.

UNM-Los Alamos Degree Program Deletion Proposal

Associate of Arts in Early Childhood Multicultural Education

The UNM-Los Alamos Curriculum Committee has approved the deletion of the degree program indicated above.

Dennis Davies-Wilson, Chair

Date

3/11/2016 AutoCurric Form C

Office of the Registrar

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Forms

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Curriculum Workflow



Link to Curricula Forms Process M	anual	
	DEGREE/PROGRAM CHANGE FORM C Form Number: C1741	PO
Fields marked with * are required		
Name of Initiator: Kateri Ruth Morris Email:	katerim@unm.edu Phone Number: 505 661-4693 [Date: 10-27-2015
Associated Forms exist?* No ▼	Initiator's Title* Admin Assistant to the Dean: Los Alam	os Branch
Faculty Contact* Kay Willerton	n Administrative Contact* Ka	ateri Morris
Department* Instruction		
Branch UNM-Los Alamo	s Admin Phone* 505-	-661-4693
Proposed effective term Semester Fall ▼ Year 2016 ▼		
	Course Information	
Select Action Revision ▼	ofessional Elementary Education (LA) ree Type AA appear in the catalog. If there is a change, upload curre	ent and proposed requirements.*
Does this change affect other department Reason(s) for Request* (enter text below or under Revision of credit hours. Reducing the number		
FormC_AAPPEE_approval.pdf		
workload implications.* (upload a doc/pdf file)	for the program, impact on long-range planning, detailed	ed budget analysis and faculty
FormC_AAPPEE_approval.pdf		
☐ Are you proposing a new undergraduate	degree or new undergraduate certificate? If yes, uploa	d the following documents.
Upload a two-page Executive Summary author	prized by Associate Provost.* (upload a doc/pdf file)	
Upload memo from Associate Provost author	rizing go-ahead to full proposal.* (upload a doc/pdf file)	
Approve and Sign Off	Send back to Initiator (Kateri Ruth Morris) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Univ	ersity of New Mexico Albuquerque, NM 87131-0001	

Proposed Revision of UNM-LA's Associate Arts in Pre-Professional Elementary Education

Overall rationale for change: Reducing credit hours to meet state mandated change to 60 hours for Associate degree.

CURRENT TEXT

About the Program

This degree program is designed for the student who is planning to transfer to a baccalaureate program upon completion. It is also designed to meet Level III/Paraprofessional licensure for educational assistants. It is the student's responsibility to contact his/her education advisor at the 4 year institution of his or her choice before registering for courses in the degree program.

PROPOSED TEXT

About the Program

This degree program is designed for the student who is planning to enter a baccalaureate program upon completion, or who wants to work as a school aide. It is the student's responsibility to contact his/her education advisor at the 4 year institution of his or her choice before registering for courses in the degree program. At UNM, Elementary Education students are required to complete a 24 credit hour concentration-teaching field. See subsequent page for specific teaching field requirements

*Note: Lower Division Education courses will not substitute for Professional Education course requirements.

Rationale: Students will be given more information about a Baccalaureate degree so they can make better decisions as they are completing their Associate degree.

Specific Requirements

A minimum of 67 credit hours. At least 15 of these 67 hours must be UNM–LA catalog credit courses taken in residence. It is strongly recommended that the student check the specific requirements for the B.S. or B.A. he or she plans to pursue at the 4 year institution of their choice.

Specific Requirements

A minimum of 60 credit hours with a minimum cumulative grade point average of 2.75. At least 15 of these 60 credit hours must be credit courses taken at a UNM campus. It is strongly recommended that the student check the specific requirements for the B.S. or B.A. he or she plans to pursue at the 4 year institution of their choice.

Rationale: Minimum credit hours revised to 60 and included GPA required by the College of Education.

General Education Requirements

WRITING AND SPEAKING (12 CREDIT HOURS)

ENGL 110: Accelerated Composition (3)

or

ENGL 112: Composition II (3)

or

ENGL 113: Enhanced Composition (3)

ENGL 120: Composition III (3)

General Education Requirements

WRITING AND SPEAKING (9 CREDIT HOURS)

Required: Choose one (1) course from the following:

ENGL 110: Accelerated Composition (3)

ENGL 112: Composition II (3)

ENGL 113: Enhanced Composition (3)

Required:

AND choose 2 courses from:

LING 101: Introduction to the Study of Language (3)

CJ 130: Public Speaking (3)

CJ 220: Communication for Teachers (3)

laximum of one literature course (3) chosen from COMP 222, ENGL 107, ENGL 150, ENGL 211, ENGL 250, ENGL 264, ENGL 265, ENGL 292, ENGL 294, ENGL 295, ENGL 296,

ENGL 297

ENGL 120: Composition III (3)

Required: Choose one (1) course from the following:

CJ 130: Public Speaking (3)

CJ 220: Communication for Teachers (3)

Rationale: We are reducing required Writing and Speaking credit hours to 9 from 12 and relocating LING 101 to Social and Behavioral Sciences as the General Education Core Curriculum has it listed.

MATHEMATICS (9 CREDIT HOURS)

Select this sequence of three courses for K-8 teachers:

MATH 111: Mathematics for Elementary/Middle School Teachers I (3)

MATH 112: Mathematics for Elementary/Middle School Teachers II (3)

MATH 215: Mathematics for Elementary/Middle School Teachers III (3)

Or select three from the list below:

MATH 121: College Algebra (3)

MATH 123: Trigonometry (3)

MATH 150: Precalculus (3)

MATH 162: Calculus I (4) *

STAT 145: Introduction to Statistics (3)

*Note: Math 162 has a prerequisite of Math 150 and Math 123.

MATHEMATICS (9 CREDIT HOURS)

Required: Select this sequence of three courses required at UNM for K-8 teachers:

MATH 111: Mathematics for Elementary/Middle School Teachers I (3)

MATH 112: Mathematics for Elementary/Middle School Teachers II (3)

MATH 215: Mathematics for Elementary/Middle School Teachers III (3)

Or select three from the list below:

MATH 121: College Algebra (3)

MATH 123: Trigonometry (3)

MATH 150: Precalculus (3)

MATH 162: Calculus I (4) *

STAT 145: Introduction to Statistics (3)

*Note: Math 162 has a prerequisite of Math 150 and Math 123.

No Change

PHYSICAL AND NATURAL SCIENCE (12 CREDIT HOURS)

Select this sequence of three NTSC courses for preservice K-8 teachers only:

NTSC 261L: Physical Science (4)

NTSC 262L: Life Science (4)

NTSC 263L: Environmental Science (4)

Or, select three from this list below. Note: students may not earn credit for both BIOL 110/112L and BIOL 123/124L:

BIOL 110: Biology for Non-Majors (3)

and

PHYSICAL AND NATURAL SCIENCE (12 CREDIT HOURS)

Select this sequence of three NTSC courses for pre-service K-8 teachers only :

NTSC 261L: Physical Science (4)

NTSC 262L: Life Science (4)

NTSC 263L: Environmental Science (4)

Note: Natural Science (NTSC) courses are recommended. However, any science course that meets the undergraduate core curriculum is acceptable.

Rationale: Make the UNM-LA degree match the requirements for the UNM baccalaureate degree

BIOL 112L: Biology Lab for Non-Majors (1) program. BIOL 123: Biology for Health Related Sciences and Non-Majors (3) and BIOL 124L: Biology for Health Related Sciences and Non-Majors Lab (1) ASTR 101: Introduction To Astronomy (3) ASTR 101L: Astronomy Laboratory (1) ENVS 101: The Blue Planet (3) ENVS 102L: Blue Planet Lab (1) CHEM 111L: Elements of General Chemistry including Lab EPS 101: How the Earth Works-An Introduction to Geology (3)and EPS 105L: Physical Geology Lab (1) PHYC 102: Introduction to Physics (3) PHYC 102L: Physics Laboratory (1) GEOG 101: Physical Geography (3) and GEOG 105L: Physical Geography Laboratory (1) SOCIAL AND BEHAVIORAL SCIENCES (6 CREDIT SOCIAL AND BEHAVIORAL SCIENCES (9 CREDIT HOURS) HOURS) Select from: ANTH 101, ANTH 130, ECON 105, ECON 106, GEOG LING 101: Introduction to the Study of Language (3) 102, POLS 110, POLS 200, PSY 105, SOC 101. Required: Select 2 courses from: SOC 101, PSY 105, POLS 110, POLS 200, POLS 220, POLS 240, ANTH 101, ANTH 130, ECON 105, ECON 106, **GEOG 102** Rationale: We moved LING 101 to the correct area and matched requirements to UNM's baccalaureate degree. **HUMANITIES (12 CREDIT HOURS) HUMANITIES (12 CREDIT HOURS)** HIST 101: Western Civilization to 1648 (3) **Required:** Choose one (1) of the following: or HIST 101: Western Civilization to 1648 (3)

HIST 102: Western Civilization Post 1648 (3) HIST 161: History of the United States to 1877 (3) HIST 102: Western Civilization Post 1648 (3) HIST 162: History of the United States Post 1877 (3) Required: HIST 260: History of New Mexico (3) HIST 161: History of the United States to 1877 (3) HIST 162: History of the United States Post 1877 (3) HIST 260: History of New Mexico (3) No Change. FOREIGN LANGUAGE (3 CREDIT HOURS) FOREIGN LANGUAGE (3 CREDIT HOURS) SPAN 101: Elementary Spanish I (3) (highly Select one course from lower-division non-English recommended.) language offerings in the general education core curriculum (Area 6). Rationale: Match the UNM required curriculum FINE ARTS (3 CREDIT HOURS) FINE ARTS (6 CREDIT HOURS) Choose 2 courses from: Select any course from the UNM Core Curriculum in Fine Arts ARTE 214: Art in Elementary and Special Classrooms (Area 7) Rationale: Change in wording to include Fine Arts MUSE 298: Music for the Elementary Teacher (3) General Education Core and meet the reduction of overall degree credit hour requirements. ARTH 101: Introduction to Art (3) ARTH 201: History of Art I (3) ARTH 202: History of Art II (3) ARTH 251: Artistic Traditions of the Southwest (3) MUS 139: Music Appreciation (3) MUS 172: Jazz History (3) THEA 105: Theatre Appreciation (3) DANC 105: Dance Appreciation (3)

Technical Core Requirements

COMPUTER TECHNOLOGY (4 CREDIT HOURS)

CT 102: Introduction to Microcomputers on the PC

EDUCATION REQUIREMENTS (3 CREDITS)*

LLSS 183: Introduction to Education in New Mexico

Note: Students planning to transfer to some New Mexico institutions will be required to take Field Experience (1) and Integrating Technology in the K-8 Classroom (2) with that institution either before or after transfer.

Note: For students transferring to UNM-Albuquerque, Physical Education courses will not count as transfer credit. Some New Mexico institutions require a 1 credit hour physical education course that can be transferred. Please consult with the institution of your choice on its requirements for a Bachelor Degree Introductory Studies courses do not count toward fulfilling the requirements of this degree.

EDUCATION REQUIREMENT (3 CREDIT HOURS)

Select one (1) course from

EDUC 124: Intro to Computers in Education (3) EDUC 183: Intro to Education in New Mexico (3)

EDUC 296: Internship (3)

Note: Students planning to transfer to some New Mexico institutions will be required to take Field Experience (1) and Integrating Technology in the K-8 Classroom (2) with that institution either before or after transfer.

Note: For students transferring to UNM-Albuquerque, Physical Education courses will not count as transfer credit. Some New Mexico institutions require a 1 credit hour physical education course that can be transferred. Please consult with the institution of your choice on its requirements for a Bachelor Degree Introductory Studies courses do not count toward fulfilling

the requirements of this degree.

Rationale: Students need exposure to their field of choice during their first 2 years. These courses give them a glimpse of their field of choice.

TOTAL CREDIT HOURS

67 CREDIT HOURS | TOTAL CREDIT HOURS

60 CREDIT HOURS

Associate Arts in Pre-Professional Elementary Education

About the Program

This degree program is designed for the student who is planning to enter a baccalaureate program upon completion, or who wants to work as a school aide. It is the student's responsibility to contact his/her education advisor at the 4 year institution of his or her choice before registering for courses in the degree program. At UNM, Elementary Education students are required to complete a 24 credit hour concentration-teaching field. See subsequent page for specific teaching field requirements

*Note: Lower Division Education courses will not substitute for Professional Education course requirements. Introductory Studies courses do not count toward fulfilling the requirements of this degree.

Specific Requirements

A minimum of 60 credit hours with a minimum cumulative grade point average of 2.75. At least 15 of these 60 credit hours must be credit courses taken at a UNM campus. It is strongly recommended that the student check the specific requirements for the B.S. or B.A. he or she plans to pursue at the 4 year institution of their choice.

General Education Requirements

WRITING AND SPEAKING (9 CREDIT HOURS)

Required: Choose one (1) course from the following:

ENGL 110: Accelerated Composition (3)

ENGL 112: Composition II (3)

ENGL 113: Enhanced Composition (3)

Required:

ENGL 120: Composition III (3)

Required: Choose one (1) course from the following:

CJ 130: Public Speaking (3)

CJ 220: Communication for Teachers (3)

MATHEMATICS (9 CREDIT HOURS)

Required: Select this sequence of three courses required at UNM for K-8 teachers:

MATH 111: Mathematics for Elementary/Middle School Teachers I (3)
MATH 112: Mathematics for Elementary/Middle School Teachers II (3)
MATH 215: Mathematics for Elementary/Middle School Teachers III (3)

Or select three from the list below:

MATH 121: College Algebra (3)

MATH 123: Trigonometry (3)

MATH 150: Precalculus (3)

MATH 162: Calculus I (4) *

STAT 145: Introduction to Statistics (3)

*Note: Math 162 has a prerequisite of Math 150 and Math 123.

PHYSICAL AND NATURAL SCIENCE (12 CREDIT HOURS)

Required: Select this sequence of three NTSC courses for pre-service K-8 teachers only:

NTSC 261L: Physical Science (4) NTSC 262L: Life Science (4)

NTSC 263L: Environmental Science (4)

Note: Natural Science (NTSC) courses are recommended. However, any science course that meets the undergraduate core curriculum is acceptable.

SOCIAL AND BEHAVIORAL SCIENCES (9 CREDIT HOURS)

Required:

LING 101: Introduction to the Study of Language (3)

Required:

Select 2 courses from:

SOC 101, PSY 105, POLS 110, POLS 200, POLS 220, POLS 240, ANTH 101, ANTH 130, ECON 105, ECON 106, GEOG 102

HUMANITIES (12 CREDIT HOURS)

Required: Choose one (1) of the following:

HIST 101: Western Civilization to 1648 (3)

or

HIST 102: Western Civilization Post 1648 (3)

Required:

HIST 161: History of the United States to 1877 (3)
HIST 162: History of the United States Post 1877 (3)

HIST 260: History of New Mexico (3)

FOREIGN LANGUAGE (3 CREDIT HOURS)

Select one course from lower-division non-English language offerings in the general education core curriculum (Area 6).

FINE ARTS (3 CREDIT HOURS)

Select any course from the UNM Core Curriculum in Fine Arts (Area 7)

EDUCATION REQUIREMENT (3 CREDIT HOURS)

Select one (1) course from

EDUC 124: Intro to Computers in Education (3)

EDUC 183: Intro to Education in New Mexico (3)

EDUC 296: Internship (3)

TOTAL CREDIT HOURS 60 CREDIT HOURS

Budget and Faculty Load

There will be no impact to the budget or the faculty load since there are no new courses or faculty requirements. This change is for the purpose of reducing the number of credit hours in the degree program.

Memorandum

To: Kay Willerton, Interim Dean of Instruction

From: Dennis Davies-Wilson, (il) Director

Date: October 19, 2015

Re: Library support for revisions to AA Program in Pre-Professional Elementary Education

Form C

Proposed changes will not impact the library's current level of support for the program.

UNM-Los Alamos Degree Program Change Proposal

Associate of Arts in Pre-Professional Elementary Education

The UNM-Los Alamos Curriculum Committee has approved the proposed changes associated with the degree program indicated above.

Dennis Davies-Wilson, Chair

Date

3/11/2016 AutoCurric Form C

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Curriculum Workflow



Link to Curricula Forms Process Manual	
DEGREE/PROGRAM CHANGE FORM C Form Number: C1760	POF
Fields marked with * are required	
Name of Initiator: Kateri Ruth Morris Email: katerim@unm.edu Phone Number: 505 661-4693 Date: 10-29-2015 Associated Forms exist?* No ▼ Initiator's Title* Admin Assistant to the Dean: Los Alamos Branch Faculty Contact* Sharon Hurley-Johns Administrative Contact* Kateri Morris Department* Computer Science Admin Email* katerim@unm.edu Branch UNM-Los Alamos Admin Phone* 505-661-4693	
Proposed effective term Semester Fall ▼ Year 2016 ▼	
Course Information	
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* AS Computer Science (LA) Select Category * Degree ▼ Degree Type AS Select Action Revision ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirement See current catalog for format within the respective college (upload a doc/pdf file)	nts.*
Does this change affect other departmental program/branch campuses? If yes, indicate below.	
Reason(s) for Request* (enter text below or upload a doc/pdf file) Reducing credit hours to meet requirements.	
FormC_AASCS_approved.pdf	
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and facult workload implications.* (upload a doc/pdf file)	у
FormC_AASCS_approved.pdf	
☐ Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.	
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)	
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)	
Approve and Sign Off Send back to Initiator (Kateri Ruth Morris) Committee Review Comment on this Form	
Office of the Registrar MSC06 3650 1 University of New Mexico Albuquerque, NM 87131-0001	

Proposed Revision of UNM-LA's Computer Science Degree

Overall rationale for change: Reducing credit hours to meet mandated change to 62 hours for Associate degree, update general education requirements as set forth by main campus, update required additional courses in math and science as required by the CS department at main campus.

CURRENT TEXT

About the Program

This is a transfer degree program designed for students interested in pursuing a baccalaureate degree in computer science. Program content is based upon the computer science baccalaureate degree offered at UNM Albuquerque campus in the School of Engineering.

Specific Requirements:

A minimum of 67 credit hours with a minimum cumulative grade point average of 2.0. At least 15 of these 67 hours must be credit courses taken at a UNM campus. CS 151 or CS 152 must be completed with a B- or better. All other computer science component courses must be completed with a minimum grade of C or better. Math 162 must be completed with a grade of B- or better. All other courses used for this degree must be completed with a minimum grade of C or better. It is strongly recommended that the student check the specific requirements for the B.S. or B.A. of interest if planning to transfer in order to make the best choices among the optional courses below

PROPOSED REVISION

About the Program

This is a transfer degree program designed for students interested in pursuing a baccalaureate degree in computer science. Program content is based upon the computer science baccalaureate degree offered at UNM Albuquerque campus in the School of Engineering.

NO change in this text.

Specific Requirements

A minimum of 62 credit hours with a minimum cumulative grade point average of 2.0. At least 15 of these 62 hours must be credit courses taken at a UNM campus. CS 151 or CS 152 must be completed with a B- or better. All other computer science component courses must be completed with a minimum grade of C or better. Math 162 must be completed with a grade of B- or better. All other courses used for this degree must be completed with a minimum grade of C or better. It is strongly recommended that the student check the specific requirements for the B.S. or B.A. of interest if planning to transfer in order to make the best choices among the optional courses below

Students with limited experience or coursework in Computer Science are strongly encouraged to take CS 101 prior to enrolling in CS 152L.

Rationale: Reduce minimum credit hours to 62. Add suggested prerequisite CS 101.

General Education Requirements

Writing and Speaking: (9 Credit hours)

ENGL 110: Accelerated Composition (3) or ENGL 112: Composition II (3) or

General Education Requirements

Writing and Speaking: (9 credit hours)

ENGL 110: Accelerated Composition (3) or ENGL 112: Composition II (3) or

ENGL 113: Enhanced Composition (3)

ENGL 120: Composition III (3)

ENGL 219: Technical and Professional Writing (3)

ENGL 113: Enhanced Composition (3)

ENGL 120: Composition III (3)

ENGL 219: Technical and Professional Writing (3)

NO Changes

MATHEMATICS AND STATISTICS (8 CREDIT HOURS)

MATH 162: Calculus I (4) (with a grade of Borbetter)

MATH 163: Calculus II (4)

MATHEMATICS AND STATISTICS (8 CREDIT HOURS)

MATH 162: Calculus I (4) (with a grade of Bor better)

MATH 163: Calculus II (4)

PHYSICAL AND NATURAL SCIENCE (14 CREDIT HOURS) Four science courses (of 3 or more credit hours) taken by science and engineering majors, two of which must come from one of the following sequences, including the laboratories. The remaining hours can be more advanced courses in the discipline chose for the sequence or they can be additional introductory laboratory science hours.

Physics is strongly recommended.

Note: Students may not take both the sequence EPS 101, EPS 105L, EPS 201L AND the sequence ENVS 101. ENVS 102L. EPS 201L.

ASTR 270 and 270L: General Astronomy and General Astronomy Laboratory I (4)

ASTR 271 and 271L: General Astronomy and General Astronomy Laboratory I (4)

BIOL 201: Molecular and Cell Biology (4)

BIOL 202: Genetics (4)

NO changes

Physical and Natural Sciences (10 credit hours)

Three science courses (of 3 or more credit hours) taken by science and engineering majors, one of which must come from one of the following sequences, including the laboratories. The remaining hours can be more advanced courses in the discipline chosen for the sequence or they can be additional introductory laboratory science hours.

Physics is strongly recommended.

Note: Students may not take both the sequence EPS 101, EPS 105L, EPS 201L AND the sequence ENVS 101, ENVS 102L, EPS 201L.

Students planning to transfer to UNM main campus to pursue a four year program in computer science should consider enrolling in an additional 4 hours of physical and natural science (course and lab) to meet departmental requirements. Students should verify specific requirements with intended transfer institution.

ASTR 270 and 270L: General Astronomy and General Astronomy Laboratory I (4)

CHEM 121 and CHEM 123L: General Chemistry I and General Chemistry Laboratory 1 (4)

CHEM 122 and CHEM 124L: General Chemistry II and General Chemistry Laboratory II (4)

EPS 101 and EPS 105L: How the Earth Works – An Introduction to Geology and Physical Geology Laboratory (4)

EPS 201L: Earth History (4)

ENVS 101 and ENVS 102L: The Blue Planet and The Blue Planet Laboratory (4)

EPS 201L: Earth History (4)

PHYC 160 and 160L: General Physics and General Physics Laboratory (4)

PHYC 161 and 161L: General Physics and General Physics Laboratory (4)

ASTR 271 and 271L: General Astronomy and General Astronomy Laboratory I (4)

BIOL 201: Molecular and Cell Biology (4)

BIOL 202: Genetics (4)

CHEM 121 and CHEM 123L: General Chemistry I and General Chemistry Laboratory 1 (4)

CHEM 122 and CHEM 124L: General Chemistry II and General Chemistry Laboratory II (4)

EPS 101 and EPS 105L: How the Earth Works – An Introduction to Geology and Physical Geology Laboratory (4)

EPS 201L: Earth History (4)

ENVS 101 and ENVS 102L: The Blue Planet and The Blue Planet Laboratory (4)

EPS 201L: Earth History (4)

PHYC 160 and 160L: General Physics and General Physics Laboratory (4)

PHYC 161 and 161L: General Physics and General Physics Laboratory (4)

Rationale: Reducing required physical and natural science to meet 62 hour standard.

Foreign Language (3 Credit Hours)

Students Should Select Any Applicable Course From UNM Core Curriculum Not Applied Elsewhere For This Degree.

Foreign Language (non-English language; 3 credit hours): One course chosen from any of the lower-division non-English language offerings of the Departments of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other departments and programs.

	Rationale: clarify foreign language requirement to meet UNM general education core.
HUMANITIES AND SOCIAL AND BEHAVIORAL SCIENCES (6 CREDIT HOURS) Select any UNM Core curriculum courses in these areas	Social and Behavioral Sciences (6 credit hours): Select any UNM Core curriculum courses in these areas Rationale: separate humanities and social science to meet general education requirements at UNM. Six hours required in each area. Humanities (6 credit hours): Select any UNM Core curriculum course in this area Rationale: separate humanities and social science to meet general education requirements at UNM. Six hours required in each area.
Fine Arts (3 credit hours):	Fine Arts (3 credit hours):
Select any UNM Core curriculum course in this area	Select any UNM Core curriculum course in this area NO Change
TOTAL GENERAL EDUCATION REQUIREMENTS 43 CREDIT HOURS	TOTAL GENERAL EDUCATION REQUIREMENTS 45 CREDIT HOURS
	Total General Education Requirements changed to align with general education requirements at UNM plus additional requirements for CS department: 45 credit hours.

Technical Core Requirements

COMPUTER SCIENCE (24 CREDIT HOURS)

- CS 101: Introduction to Computing Science (4)
- CS 151L: Computer Programming Fundamentals for Non-Majors (3) (with a grade of B-or better)

or

- CS 152L: Computer Programming Fundamentals (3) (recommended) (with a grade of B- or better)
- CS 220: Systems Analysis and Design (3)
- CS 241L: Data Organization (3)
- CS 251L: Intermediate Programming (3)
- CS 261: Mathematical Foundations of Computer Science (3)
- CS 293: Social and Ethical Computing (1)
- ECE 238L: Computer Logic Design (4)

TOTAL TECHNICAL CORE REQUIREMENTS 24 CREDIT HOURS

TOTAL CREDIT HOURS 67 CREDIT HOURS

Technical Core Requirements (17 credit hours)

CS 151L: Computer Programming Fundamentals for Non-Majors (3) (with a grade of B-or better)

or

CS 152L: Computer Programming Fundamentals (3) (recommended) (with a grade of B- or better)

CS 241L: Data Organization (3)

CS 251L: Intermediate Programming (3)

CS 261: Mathematical Foundations of Computer Science (3)

CS 293: Social and Ethical Computing (1)

ECE 238L: Computer Logic Design (4)

TOTAL TECHNICAL CORE REQUIREMENTS 17 CREDIT HOURS

Rationale: Reducing technical core requirements to align with main campus CS program and to meet 62 hour requirement. Removed CS 220 and CS 101 from the required core list to align with main campus program. CS 101 will remain as a suggested prerequisite for CS 151L or CS 152L.

TOTAL CREDIT HOURS

62 CREDIT HOURS

Memorandum

To: Kay Willerton, Interim Dean of Instruction

From: Dennis Davies-Wilson, Library Director

Date: October 19, 2015

Re: Library support for revisions of AAS Program in Computer Science Form C

Proposed changes will not impact the library's current level of support for the program.

UNM-Los Alamos Degree Program Change Proposal

Associate of Applied Science in Computer Science

The UNM-Los Alamos Curriculum Committee has approved the proposed changes associated with the degree program indicated above.

Danies - Wilson 10-30-15 ilson, Chair Date Dennis Davies-Wilson, Chair

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Curriculum Workflow

Link to Curricula Forms Process Manual	
DEGREE/PROGRAM CHANGE FORM C Form Number: C1776	Adobe
Fields marked with * are required	
Name of Initiator: Yu-Lin Shen Email: shenyl@unm.edu Phone Number: 505 277-6286 Date: 10-29-2015 Associated Forms exist?* No Initiator's Title* Professor: Mechanical Engineering Faculty Contact* Yu-Lin Shen Administrative Contact* Heather Armstrong Department* Mechanical Engineering Admin Email* heathera@unm.edu Branch Admin Phone* 277-1326	
Proposed effective term Semester Spring ▼ Year 2016 ▼	
Course Information	
Select Appropriate Program* Graduate Degree Program Name of New or Existing Program* M.S. in Mechanical Engineering Select Category * Degree ▼ Degree Type Select Action Revision ▼	
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)	
JNM_Catalog_Descriptions.docx	
Does this change affect other departmental program/branch campuses? If yes, indicate below.	
Reason(s) for Request* (enter text below or upload a doc/pdf file) UNM Graduate Studies has made available the Plan III (coursework only) M.S. degree. Department of Mechanical Engineering has decide add Plan III as one of the M.S. degree options.	ed to
Jpload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)	
ustification.docx	
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.	
Jpload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)	
Jpload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)	
Approve and Sign Off Send back to Initiator (Yu-Lin Shen) Committee Review Comment on this Form	
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Current UNM Catalog Description

Master of Science in Mechanical Engineering

A minimum of 24 credit hours of 500-level credit is required for all students pursuing the Master of Science (M.S.) in Mechanical Engineering degree program.

Plan I (Thesis) This degree plan requires 31 credit hours. Six (6) credit hours (ME 599) are required for a thesis. A seminar course must be taken for two semesters.

Plan I (Non-Thesis) This degree plan requires 34 credit hours. Three (3) credit hours (ME 559) are required for a project. A seminar course must be taken for two semesters.

Optional Concentration in Manufacturing Engineering: The M.S. with the Manufacturing Engineering concentration requires 37 credit hours and a three-month industrial internship in a manufacturing setting. At least three electives for this program must be selected from a set of engineering science courses defined by the department.

Notes Regarding the Master of Engineering in Manufacturing Engineering

The Master of Engineering in Manufacturing Engineering (M.E.M.E.) degree is offered by the Manufacturing Engineering Program (MEP). This program is (administratively) separate from the ME Department at the University of New Mexico and is housed in the Manufacturing Technology and Training Center (MTTC), located in the South Campus. Details of this degree program are found in the <u>School of Engineering</u> section of this Catalog.

Proposed UNM Catalog Description (additions in color)

Master of Science in Mechanical Engineering

A minimum of 24 credit hours of 500-level credit is required for all students pursuing the Master of Science (M.S.) in Mechanical Engineering degree program.

Plan I (Thesis) This degree plan requires 31 credit hours. Six (6) credit hours (ME 599) are required for a thesis. A seminar course must be taken for two semesters.

Plan II (Non-Thesis) This degree plan requires 34 credit hours. Three (3) credit hours (ME 559) are required for a project. A seminar course must be taken for two semesters.

Plan III (Coursework Only) This degree plan requires 34 credit hours of regular coursework. A seminar course must be taken for two semesters.

Other program information and requirements are available at the department website.

Optional Concentration in Manufacturing Engineering: The M.S. with the Manufacturing Engineering concentration requires 37 credit hours and a three-month industrial internship in a manufacturing setting. At least three electives for this program must be selected from a set of engineering science courses defined by the department.

Notes Regarding the Master of Engineering in Manufacturing Engineering

The Master of Engineering in Manufacturing Engineering (M.E.M.E.) degree is offered by the Manufacturing Engineering Program (MEP). This program is (administratively) separate from the ME Department at the University of New Mexico and is housed in the Manufacturing Technology and Training Center (MTTC), located in the South Campus. Details of this degree program are found in the *School of Engineering* section of this Catalog.

UNM Graduate Studies has made available the Plan III option (coursework only) within the M.S. degree. Department of Mechanical Engineering faculty has voted, on 10/19/2015, to add Plan III as one of the options for its M.S. degree. There will be no impact on planning, budget, and faculty workload. The current graduate course offerings are sufficient to accommodate the new Plan III. It is anticipated that this new option will attract more students, especially those who are working professionals or student employees in government laboratories and local industries.

Assessment of outcomes will follow the current rubric for the Plan I and Plan II M.S. degree in Mechanical Engineering. Each student will have an academic advisor who provides supervision and guidance for the student's course selection and progress. The assessment will be conducted by the advisor and the Graduate Program Director, at the time when the student completes all the degree requirement.

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	DEGREE/PROGRAM CHANGE FORM C Form Number: C1791	PDF
Fields marked with * are required		
Name of Initiator: John David Quale Email: C Associated Forms exist?* No ▼ Faculty Contact* John Quale Department* Architecture Branck	e Administrative Contact* John Q e Admin Email* quale@unm	uale .edu
Proposed effective term Semester Fall ▼ Year 2016 ▼]	
	Course Information	
Select Action New ▼	re Minor (NEW) ree Type undergraduate appear in the catalog. If there is a change, upload	current and proposed requirements.*
Architecture minor FINAL.xlsx		
Does this change affect other departmen	tal program/branch campuses? If yes, indicate be	low
Reason(s) for Request* (enter text below or u		
Upload a document that inlcudes justification workload implications.* (upload a doc/pdf file) Architecture Minor description.pdf	for the program, impact on long-range planning, d	letailed budget analysis and faculty
☐ Are you proposing a new undergraduate of	degree or new undergraduate certificate? If yes, u	
Upload a two-page Executive Summary author	prized by Associate Provost.* (upload a doc/pdf file	9)
Upload memo from Associate Provost author	rizing go-ahead to full proposal.* (upload a doc/pdf	file)
Approve and Sign Off	Send back to Initiator (John David Quale) Comment on this Form	Committee Review
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Architecture Minor

Students that want to pursue a minor in Architecture need to enroll in 18 credit hours. The required courses and electives (listed below) are selected to provide students an opportunity to experience the broad range of knowledge necessary to study architecture. A minimum grade of C is required for these courses to count towards the minor.

CICCHYE	considered for enrollment in any other courses that are required for the Bachelor of Arts in Architecture.	
architectural elective	Students can choose to enroll in ARCH 224, World Architecture II or any architectural elective typically ARCH 462 classes. Special permission will be	3
elective	options.	
visualization	Students can choose from an version of the ARCH 472 Architectural Visualization	1
ARCH 201	Architectural Design I	5
ARCH 133	Physics & Math for Designers	3
ARCH 111	Introduction to Architectural Graphics	3
ARCH 109	Design Fundamentals	3

Architecture Minor PROPOSED

Each year a handful of students move out of the Bachelor of Arts in Architecture (BAA) program to pursue another major. Often these students make this decision after they have taken at least 18 credit hours of coursework.

In addition, we often have students that take our ARCH 121 Introduction to Architecture course (a course that is regularly filled) that have developed an appreciation for architecture but still pursue another major. Sometimes these students choose to eventually pursue a three year professional Master of Architecture degree, similar to the Track 3 of our MArch. In fact, we currently have four Track 3 students that received their undergraduate degree from UNM, but did not complete a BAA. Yet all of them took at least two or three architecture courses – one of them took almost two years of courses.

We believe this demonstrates the potential of a Minor in Architecture. We predict that this minor could graduate as many as a dozen students each year without much recruiting. With an aggressive recruiting campaign, we could double that.

We also feel that an architecture minor will help with recruitment for the Track 3 of our MArch degree.

Implications on Faculty Load and / or Budget:

The requirements for the minor are all courses currently offered in the program, that typically have room for a few additional students.

Therefore, there is no faculty load or budget impact.

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	DEGREE/PROGRAM CHANGE FORM C Form Number: C1794	PO
Fields marked with * are required		
Name of Initiator: John David Quale Email: quale Associated Forms exist?* Yes Faculty Contact* John Quale Department* Architecture Branch	tiator's Title* Professor: SAAP Architecture Prograr Administrative Contact* John Qual Admin Email* quale@unm.ed Admin Phone* 505-277-119	e u
Proposed effective term Semester Summer ▼ Year 2016 ▼		
	Course Information	
Select Appropriate Program* Graduate Degree F Name of New or Existing Program* Master of Archi Select Category * Degree ▼ Degree T Select Action Revision ▼	itecture -Track Three	
Exact Title and Requirements as they should appe See current catalog for format within the respective of		rrent and proposed requirements.*
MArch Track 3 curriculum FINAL.pdf OLD NEW MArch Track 3 curriculum FINAL.pdf		
Does this change affect other departmental p	program/branch campuses? If yes, indicate below	ı.
Reason(s) for Request* (enter text below or uploa no	d a doc/pdffile)	
Upload a document that inlcudes justification for t workload implications.* (upload a doc/pdf file)	the program, impact on long-range planning, deta	iled budget analysis and faculty
MArch Track 3 changes.pdf		
☐ Are you proposing a new undergraduate degr	ee or new undergraduate certificate? If yes, uplo	ad the following documents.
Upload a two-page Executive Summary authorize	d by Associate Provost.* (upload a doc/pdf file)	
Upload memo from Associate Provost authorizing	រ្វ go-ahead to full proposal.* (upload a doc/pdf file)
Approve and Sign Off Ser	nd back to Initiator (John David Quale) Comment on this Form	Committee Review
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Master of	Architecture (MArch)	
Track 3		
First Year		
SUMMER		
ARCH 500	Graduate Architectural Design I	6
ARCH 570	Introduction to Visualization	1
	Total	7
FALL		•
ARCH 501	Graduate Architectural Design II	6
ARCH 521	Architectural Analysis	3
ARCH 523	World Architecture I	3
ARCH 532	Architectural Structures I	3
ARCH 572	Design Visualization ***	1
	Total	16
SPRING		
ARCH 502	Graduate Architectural Design III	6
ARCH 524	World Architecture II	3
ARCH 531	Graduate Construction I	3
ARCH 533	Architectural Structures II	3
ARCH 572	Design Visualization ***	1
	Total	16
	1st Year Minimum Total	39
Second Year	r	
FALL		
ARCH 601	Masters Architectural Design I	6
ARCH 633	Sustainability II	3
ARCH 634	Systems Integration I	3
ARCH 652	Pre-Design & Architectural Programming	3
	Total	15
SPRING		
ARCH 602	Masters Architectural Design II	6
ARCH 621	Research Methodology	3
ARCH 624	Architectural Theory	3
ARCH 635	Systems Integration II	3
	Total	15
	2nd Year Minimum Total	30

Third Year		
FALL		
ARCH 603 OR ARCH 596*	Masters Architectural Design III OR Masters Thesis Prep	6
ARCH 651	Professional Practice	3
ARCH 596*	Three credits of Masters Project Prep is required if planning on Masters Project in final semester	
LA 556	Site/Environment	3
	Architectural History or Theory elective	3
	Total	15
SPRING		
ARCH 604 OR ARCH 597 OR ARCH 599*	Masters Architectural Design IV OR Masters Project OR Masters Thesis	6
	9 elective credits** in any graduate level course.	9
	Total	15
	3rd Year Minimum Total	30
	GRAND TOTAL	99

^{*} After the Masters Review, MArch students will be in one of three degree plans to graduate. Plan I (Masters Thesis) requires six credit hours of ARCH 596 in the Fall, and ARCH 599 in the Spring. Plan II (Masters Project) requires three credit hours of ARCH 596 in the Fall, and ARCH 597 in the Spring. Plan III students take ARCH 603 in the Fall and ARCH 604 in the Spring. Masters Project students can use their three credits in ARCH 596 to count as elective credits.

^{**} NAAB accreditation requires students to have a minimum total of 45 credit hours in non-architectural coursework in their undergraduate and graduate education combined. If necessary, students should use their electives to get to this number.

^{***3} year MArch students can take this Architectural Vizualization class from among any of the 1 or 2 credit ARCH 672 options anytime during their curriculum.

Master of Architecture (MArch) Track 3 REVISED

The Track 3 of the MArch is for students who have an undergraduate in something other than Architecture.

This revision to the track is relatively minor. It proposed the introduction of two new required courses, deletes one course and changes the courses names and / or course numbers for several more. The course name and course number changes are for clarity – allowing for more accurate names, and course numbers that have an integral logic to them.

Implications on Faculty Load and / or Budget:

There is no faculty load or budget impact because this is a minor revision of the MArch degree we currently offer.

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Fields marked with * are required
Name of Initiator: John David Quale Email: quale@unm.edu Phone Number: 505 277-1199 Date: 11-01-2015 Associated Forms exist?* Yes Initiator's Title* Professor: SAAP Architecture Program Faculty Contact* John Quale Administrative Contact* John Quale Department* Architecture Admin Email* quale@unm.edu Branch Admin Phone* 505-277-1199
Proposed effective term Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Graduate Degree Program Name of New or Existing Program* Master of Architecture - Track 2.5 Select Category* Degree Degree Type Select Action Revision Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirement See current catalog for format within the respective college (upload a doc/pdf file) MArch Track 2.5 curriculum FINAL.pdf Does this change affect other departmental program/branch campuses? If yes, indicate below. Reason(s) for Request* (enter text below or upload a doc/pdf file)
Upload a document that inloudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
MArch Track 2.5 changes.pdf
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.
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Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)
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	Architecture (MArch)	
Track 2.5		
First Year		
FALL		
ARCH 601	Masters Architectural Design I	6
ARCH 633	Sustainability II	3
ARCH 634	Systems Integration I	3
ARCH 652	Pre-Design & Architectural Programming	3
	Total	15
SPRING		
ARCH 602	Masters Architectural Design II (spring or summer)	6
ARCH 621	Research Methodology	3
ARCH 624	Architectural Theory	3
ARCH 635	Systems Integration II	3
	Total	15
	1st Year Minimum Total	30
Second Year		
FALL		
ARCH 603	Masters Architectural Design III	6
ARCH 651	Professional Practice	3
LA 556	Site/Environment	3
	Total	12
SPRING		
ARCH 604 OR ARCH 596*	Masters Architectural Design III OR Masters Thesis Prep	6
	Open Elective OR Masters Project Prep OR Thesis Prep	6
	Architectural History or Theory elective	3
	Total	15
	2nd Year Minimum Total	27
Third Year **	*	
FALL		
ARCH 605 OR	Masters Architectural Design IV OR Masters Project OR Masters Thesis	6
ARCH 597 OR		
ARCH 599*	Colorbino and lite** in consequent level consequent	
	6 elective credits** in any graduate level course.	6
	Total	12
	3rd Year Minimum Total	12
	GRAND TOTAL	69
I* After the Maste	ers Review MArch students will be in one of three degree plans to graduate. Plan I (Mast	ters

^{*} After the Masters Review, MArch students will be in one of three degree plans to graduate. Plan I (Masters Thesis) requires six credit hours of ARCH 596 in the Fall, and ARCH 599 in the Spring. Plan II (Masters Project) requires three credit hours of ARCH 596 in the Fall, and ARCH 597 in the Spring. Plan III students take ARCH 603 in the Fall and ARCH 604 in the Spring. Masters Project students can use their three credits in ARCH 596 to count as elective credits.

^{**} NAAB accreditation requires students to have a minimum total of 45 credit hours in non-architectural coursework in their undergraduate and graduate education combined. If necessary, students should use their electives to get to this number.

^{***} The Track 2.5 can be completed in two years if the student also takes a studio and other classes during with the summer.

Master of Architecture (MArch) Track 2.5 PROPOSED

We are proposing a new Track 2.5 of the Master of Architecture (MArch). Currently we have a Track 3 for students that have little or no background in architecture. It takes three years plus part of a summer to complete. We also have a Track 2 for students who have a four year undergraduate degree in architecture, and it take two years to complete.

The proposed Track 2.5 is for students that have some background in architecture, but not as much as our undergraduate BAA students. We expect the Track 2.5 option to give use a competitive edge because very few schools have this option.

The curriculum assumes the Track 2.5 students will begin at their sequence at the beginning of the second year for the Track 3 students, which is also the beginning of the first year for the Track 2 students. From the moment they join the program, they will take the same courses as the Track 3 and Track 2 students. However, the Track 2.5 students will have to take classes during a summer, or stay for an additional semester compared to the Track 2 students.

Implications on Faculty Load and / or Budget:

There is no faculty load or budget impact because this is a minor revision of the MArch degree we currently offer. We have capacity in our enrollment to include students in a Track 2.5 without having to add additional sections. If enrollment substantially grows, and we find we don't have enough faculty, we will hire part time faculty to fill the gap. Our predicted enrollment of Track 2.5 students in the first five years is 4-5 students a year.

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Proposed effective term Semester Fall ▼ Year 2016 ▼	
Course Information	
Select Appropriate Program* Graduate Degree Program ▼ Name of New or Existing Program* Master of Architecture - Track Two Select Category * Degree ▼ Degree Type Select Action Revision ▼	
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirement See current catalog for format within the respective college (upload a doc/pdf file)	s.*
OLD NEW MArch Track 2 curriculum FINAL.pdf MArch Track 2 curriculum FINAL.pdf	
Does this change affect other departmental program/branch campuses? If yes, indicate below.	
Reason(s) for Request* (enter text below or upload a doc/pdf file) no	
Upload a document that inloudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)	
MArch Track 2 changes.pdf	
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Master of A Track 2 CU	Architecture (MArch) RRENT		Master of A	Architecture (MArch) EVISED		
First Year			First Year			Comments
FALL			FALL			
ARCH 601	Masters Architectural Design I	6	ARCH 601	Masters Architectural Design I	6	5
ARCH 542	Architectural Programming	3	ARCH 633	Sustainability II	3	moved to new semester; align with technical course numbers
	Architectural History or Theory Elective	3	ARCH 634	Systems Integration I	3	moved to new semester; align with technical course numbers
	3 elective credits* in any graduate level course.	3	ARCH 652	Pre-Design & Architectural Programming	3	moved to new semester; more accurate name; align with professional course numbers
	3 elective credits* in any graduate level course.	3				
	Total	18		Total	15	
SPRING			SPRING			
ARCH 602 OR ARCH 603	Masters Architectural Design II (spring) OR Masters Architectural Design III (summer)	6	ARCH 602	Masters Architectural Design II (spring or summer)	6	can be taken in spring or summer
	3 elective credits* in any graduate level course.	3	ARCH 621	Research Methodology	3	align with history / theory numbers
ARCH 551	Research Methodology	3	ARCH 624	Architectural Theory	3	new course (see Form B)
ARCH 631	Systems Integration I	3	ARCH 635	Systems Integration II	3	moved to new semester; align with
	Total	15		Total	15	technical course numbers
Second Year	1st Year Minimum Total	33	Second Year	1st Year Minimum Total	30	
STUDIO			FALL			
OPTIONS			FALL			
ARCH 604 AND ARCH 605	Masters Architectural Design IV (fall) AND Masters Architectural Design V (spring)	6 6	ARCH 603 OR ARCH 596*	Masters Architectural Design III OR Masters Thesis Prep	6	
ARCH 604 AND ARCH 596 AND ARCH 597	Masters Architectural Design IV (fall) AND Project/Thesis Preparation** (fall) AND Master's Project (spring)	6 3 6	ARCH 651	Professional Practice	3	3
ARCH 596 AND ARCH 599	Project/Thesis Preparation** (fall) AND Master's Thesis (spring)	6	ARCH 596*	Three credits of Masters Project Prep is required if planning on Masters Project in final semester		
FALL			LA 556	Site/Environment	3	reintroduced course (was removed from Track 2 a couple of years ago, but still in Track 3)
				Architectural History or Theory elective	3	3
ARCH 651	Professional Practice II	3		Total	15	
ARCH 632	Systems Integration II	3				
			SPRING			
	Studio or Thesis Prep	6	ARCH 604 OR ARCH 597 OR	Masters Architectural Design IV OR Masters Project OR	6	8
	Total	12	ARCH 597 OR	9 elective credits** in any graduate level	g	9
SPRING				Total	15	
	Studio or Masters Project / Thesis	6		3rd Year Minimum Total	30	
	3 elective credits* in any graduate level course.	3		GRAND TOTAL	99	
	Total	9	* After the Maste	rs Review, MArch students will be in one of thr	ee	
			hours of ARCH 5 (Masters Project) and ARCH 597 ir Fall and ARCH 6	graduate. Plan I (Masters Thesis) requires six of 196 in the Fall, and ARCH 599 in the Spring. P or equires three credit hours of ARCH 596 in the the Spring. Plan III students take ARCH 603 04 in the Spring. Masters Project students cars in ARCH 596 to count as elective credits.	lan II e Fall, in the	
			credit hours in no	tation requires students to have a minimum toton- architectural coursework in their undergradu on combined. If necessary, students should us of this number.	ate and	
	2nd Year Minimum Total	21		students can take this Architectural Vizualization of the 1 or 2 credit ARCH 672 options anytime		
	GRAND TOTAL	54				
credit hours in nor	ion requires students to have a minimum total n-architectural coursework in their undergradu in combined. If necessary, students should us this number.	ate and				
	ints number.					
554136 600						1

Master of Architecture (MArch) Track 2 REVISED

We are proposing minor changes to the Track 2 of the Master of Architecture (MArch). Track 2 for students who have a four year undergraduate degree in architecture, and it take two years to complete.

The changes include the introduction of one new required course, and changes the courses names and / or course numbers of a few more. The course name and course number changes are for clarity – allowing for more accurate names, and course numbers that have an integral logic to them.

Implications on Faculty Load and / or Budget:

There is no faculty load or budget impact because this is a minor revision of the MArch degree we currently offer.

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Name of Initiator: Abhaya Datye Email: datye Associated Forms exist?* No Faculty Contact* Abhaya Daty Department* Chemical & Biological Engineerin Branch Mai	Initiator's Title* Chair of Chemical & Biological E Administrative Contact* And Admin Email* annitori	nette Torres r@unm.edu
Proposed effective term Semester Fall ▼ Year 2016 ▼		
	Course Information	
Select Action Revision Exact Title and Requirements as they should a See current catalog for format within the respective Graduate degrees offered by CBE in Chemical E	cal Engineering the Type Masters In program in the catalog. If there is a change, upload we college (upload a doc/pdf file) In ngineering.docx In program/branch campuses? If yes, indicate be	
UNM recently approved a Masters degree Plan	III. The CBE department would like to offer this as a II. The School of Engineering will propose a plan	
Upload a document that inlcudes justification f workload implications.* (upload a doc/pdf file)	or the program, impact on long-range planning, c	letailed budget analysis and faculty
Justification for a Plan III Masters degree.docx		
☐ Are you proposing a new undergraduate de	egree or new undergraduate certificate? If yes, ι	upload the following documents.
Upload a two-page Executive Summary author	ized by Associate Provost.* (upload a doc/pdf file	9)
Upload memo from Associate Provost authoriz	zing go-ahead to full proposal.* (upload a doc/pdf	file)
Approve and Sign Off	Send back to Initiator (Abhaya Datye) Comment on this Form	Committee Review
Office of the Registrar MSC06 3650 1 Univer	sity of New Mexico Albuquerque, NM 87131-0001	

The department offers a Master's degree in Chemical Engineering with either a Plan I (thesis), Plan II (non-thesis) or Plan III (non-thesis) option, as well as a PhD in Engineering with a concentration in Chemical Engineering. General requirements for the degrees offered follow.

Information presented here provides a quick overview of the degree programs; consult the UNM catalog for complete details.

Core Courses (MS, PhD)

Students in the chemical engineering MS program are required to take the core courses listed below. Students admitted to the chemical engineering doctoral program and not already possessing an MS in Chemical Engineering are generally required to complete the chemical engineering core courses.

- CBE 501: Graduate Seminar (required every semester up to 4 semesters for MS students, up to 8 semesters for PhD students) – 1 cr
- CBE 502: Chemical and Biological Engineering Research Methods Seminar (3 cr)
- CBE 521: Advanced Transport Phenomena I 3 cr
- CBE 525: Methods of Analysis in Chemical and Nuclear Engineering 3 cr
- CBE 561: Kinetics of Chemical Processes 3 cr
- CBE 542: Advanced Chemical Engineering Thermodynamics 3 cr

MS, Plan I (Thesis option)

- 24 hrs of course work, including core courses
- 6 hrs thesis
- Significant milestones:
 - o Thesis defense
 - Submission of completed thesis

MS, Plan II (Non-thesis option)

NOTE: The non-thesis option is available only with prior approval

- 30 hrs coursework, including core courses, and maximum of 6 hrs of CBE 551/552: Problems
- Completion of Master's project under the direction of a faculty member (typically be done as part of a Problems course)
- Significant milestones:
 - Master's Examination, consisting of an oral presentation and defense of the student's major project, as well as oral examination of the student's discipline principles

MS, Plan III (Coursework Only)

NOTE: The coursework only option is available only with prior approval

30 hrs coursework, including core courses, and maximum of 6 hrs of CBE 551/552: Problems

PhD

- A minimum of 48 hrs of coursework beyond the bachelor's degree (excluding dissertation hrs)
 - At least 24 hours of coursework applied to the degree must be completed at UNM
 - At least 18 hours must be completed after formal admission to the doctoral program (or approval of Change of Degree Form for students continuing from the MS).
 - 24 hours maximum credit applied to a master's degree, which may include up to 6 hours of thesis credit
- 18 hours dissertation
- Significant milestones:
 - Qualifying Exam: The qualifying exam in chemical engineering consists of a written and oral exam and is required for all students to proceed in the doctoral program. The Exam should be taken at the first opportunity after completing the required core courses.
 - o Comprehensive Exam
 - o Dissertation defense
 - Submission of completed dissertation

More Information

- UNM catalog
- Chemical and Biological Engineering Graduate Student Manual (.pdf)

MS Plan III (Non-Thesis) Degree Requirements

The Plan III (non-thesis) Master's is considered a terminal or professional degree. Students interested in this option must obtain pre-approval from the CBE Graduate Advisor.

The non-thesis Master's requires 30 credit hours of coursework including the departmental core courses and a maximum, including core courses and a maximum of 6 hrs of CBE 551/552: Problems.

Core courses include:

- CBE 501: Graduate Seminar (1 cr. required every semester; up to 4 credits may be applied toward the MS)
- CBE 502: Chemical and Biological Engineering Research Methods Seminar (3 cr)
- CBE 521: Advanced Transport Phenomena I (3 cr)
- CBE 525: Methods of Analysis in Chemical and Biological Engineering (3 cr)
- CBE 561: Kinetics of Chemical Processes (3 cr)
- CBE 542: Advanced Chemical Engineering Thermodynamics (3 cr)

Master's students submit a <u>Program of Studies</u> listing all courses being applied to the degree no later than the term before the student intends to graduate.

Approaching the conclusion of the degree, students must submit the <u>Intent to Graduate</u> form prior to the beginning of their final semester. This is intended as a quick overview of degree requirements. Consult the <u>UNM Catalog</u> and Graduate Handbook for additional details.

Reasons for adopting a Plan III Master's Degree --- Course Work Only Option

A number of research universities offer course---work only Master's degrees including the University of Texas---Austin, Colorado State University, University of Washington, University of Michigan, and the University of Minnesota to name a few. In general, professional degree programs such as engineering, business, law, and health most often adopt these degree options. The main reason behind offering the option is for those students who do not envision conducting research in their career. The CBE department does not require a final examination beyond successfully completing required coursework, hence this option will be attractive for students who want to get a course work masters and do not need to complete the project which is required for Plan II.

There are no budgetary implications, because the degree plan is substantially similar to the Plan II currently offered. Not additional faculty time will be required to administer this plan and the courses are already offered as part of our current graduate offerings.

DEGREE/PROGRAM CHANGE FORM C

Form Number: C1779

Fields marked with * are required			
Name of Initiator: Kelsey Molo	Email: molok@unm.edu	Phone Number:	Date: 10-30-2015

Initiator's Title Sr Academic Advisor: Advising Associated Forms exist? Yes

Faculty Contact Dr. Jozi De Leon Department Division of Equity and Inclusion

Branch Main

Administrative Contact Kelsey Molo Admin Email molok@unm.edu Admin Phone 277-0734

Proposed effective term

Year | 2016 Semester Fall

Course Information

Select Appropriate Program Undergraduate Degree Program V Name of New or Existing Program U.S. and Global Diversity and Inclusion UG Degree Requirement Degree Type Baccalaureate Select Category | Degree Select Action Revision

Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.

See current catalog for format within the respective college (upload a doc/pdf file)

Catalog language.pdf

Does this change affect other departmental program/branch campuses? If yes, indicate below.

Reason(s) for Request (enter text below or upload a doc/pdf file) See attached memo.

FSCC Questions DCCC Responses.pdf

Form C US Global Div Inclusion Memo Final Version 10 29 15.pdf

Upload a document that inleudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.(upload a doc/pdf file)

U S Global Diversity Inclusion Undergraduate requirement criteria checklist 3 04 16.pdf

Course to remove - Final - for FORM C.pdf

Diversity Council Curriculum Subcommittee Members.pdf

Approved courses - Final 10.29.15 - for FORM C.pdf

Previously approved Form C - C1292.pdf

Signed MEMORANDUM Form C Global Div Inclusion Memo Final Version 10302015.pdf

Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.

Upload a two-page Executive Summary authorized by Associate Provost. (upload a doc/pdf file)

Upload memo from Associate Provost authorizing go-ahead to full proposal. (upload a doc/pdf file)

REVISED CATALOG LANGUAGE:

U.S. and Global Diversity and Inclusion Undergraduate Degree Requirement

The University of New Mexico values learning outcomes related to diversity and inclusion. The stated aim of the three-credit "U.S. and Global Diversity and Inclusion" undergraduate degree requirement is to promote a broad-scale understanding of the culture, history or current circumstance of diverse categories of people who have experienced historic and/or contemporary inequitable treatment in the U.S. or in a global context. Courses that fulfill the three-credit "U.S. and Global Diversity and Inclusion" undergraduate requirement must have their primary emphasis (at least 50%) on one or more of the following areas: gender, race, class, ethnicity, sexual orientation, disability, religion, language, culture and/or other marginalized category of people and address two of four learning outcomes identified in the syllabi checklist. These courses should include primary learning outcomes pertaining to the experiences of diverse categories of people and potential solutions to the challenges facing diverse communities. Courses can double count with other core or elective courses that have met the aforementioned student learning outcomes. For a list of approved courses fulfilling this requirement, please check with your advisor or visit the website: diverse.unm.edu.



Date Submitted:	Submitted by:
Criteria C	Checklist for "U.S. & Global Diversity & Inclusion" Undergraduate Requirement

Please fill out this form and email to: <u>usglobaldiversity@unm.edu</u> and attach course syllabus. The courses submitted to meet the requirement should meet two (2) of the four (4) learning outcomes, should include the ADA Statement on the syllabus and provide content to address the learning outcomes in at least half of the class.

For more information on this requirement please refer to diverse.unm.edu

RATIONALE & OBJECTIVES

The stated aim of the "U.S. & Global Diversity & Inclusion" undergraduate degree requirement is to promote a broad-scale understanding of the culture, history or current circumstance of diverse groups of people who have experienced historic and/or contemporary inequitable treatment in the U.S. or in a global context.

The Division for Equity and Inclusion posits that **inclusive excellence** requires a healthy and inclusive campus climate and refers to the processes by which the University leverages diversity as its' strength to enhance an understanding and connection with diverse communities, ensure the success of all UNM students, and advance the academic enterprise. For more information: diverse.unm.edu.

Courses that address at least two of the following four diversity outcomes will be listed as meeting the U.S. Global, Diversity and Equity requirements. The Diversity Council Curriculum Subcommittee is collecting the syllabi for potentially diversity inclusive courses that were identified and approved by the Faculty Senate. Please complete the checklist to identify which of the four diversity outcomes are being addressed in your course. Please include the student learning outcome from your syllabus that meets the diversity and inclusion learning outcome. It should take approximately three minutes to complete the checklist. Courses that addresses two or more of the diversity outcomes will be included on the final list of approved courses.

Course Prefix	Number	Title	Instructor Name & Title	Email
My course includes primary emphasis (half or more of the course content) on one or more combinations of the following areas (mark an X for all that apply): gender; race; class; ethnicity; sexual orientation; disability; religion; and/orother marginalized group(s)- specify group:				

(Note: If class is cross-listed or offered with another course, ALSO list course prefix, number, and title.)

YES	NO	LEARNING OUTCOMES (engages two or more of the key learning outcomes for half or more of the course content)	Paste relevant student learning outcome from syllabus (please reference specific activities or assignments from your syllabus).
		Demonstrate an ability to view issues from multiple perspectives as well as analyze, evaluate, and interpret one's own history and position in contemporary U.S. society as well as in a global context.	
		Understand the dynamics of historic and contemporary inequality, oppression, and resistance for marginalized groups in local and global societies and how those dynamics shape individual and community power and experiences (e.g., sexism, institutional racism, homophobia, etc.).	
		Demonstrate critical literacy and ethics pertaining to the dynamics of diversity and inclusion by race, gender, class, sexual orientation, ethnicity, religion and disability in the U.S. and/or global context.	
		Communicate an understanding of the ways in which inequitable treatment of groups by race, ethnicity, disability, religion, sexual orientation, and/or gender inequality is socially constructed and politically implemented and maintained.	

All submitted syllable must include a disability statement. Below is an example snared with the Diversity Council Curriculum
Subcommittee Joan Green, Director of Accessibility Services, UNM.
In accordance with UNM Policy 2130 and the Americans with Disabilities Act (ADA), academic adjustments may be made for students with disabilities. Accessibility Resource Center, 2021 Mesa Vista Hall, 277-3506 (voice/TT), coordinates
accoming dations and comings. If you have a disability for which you may necessary and emis a division and have not

In accordance with UNM Policy 2130 and the Americans with Disabilities Act (ADA), academic adjustments may be made for students with disabilities. Accessibility Resource Center, 2021 Mesa Vista Hall, 277-3506 (voice/TT), coordinates accommodations and services. If you have a disability for which you may request academic adjustments and have not registered with their office, please do so as soon as possible. Also meet with me privately to discuss your specific accommodations and how they relate to course expectations and assignments.

<u>SYLLABI LEARNING OUTCOMES INCLUDED IN SYLLABUS INCLUDED – MARK ONE</u>: () YES () NO All submitted syllabi must include clear and identifiable student learning outcomes/goals/objectives.



MEMORANDUM

October 30, 2015

To: Faculty Senate Undergraduate Committee and Curriculum Committee

From: Dr. Jozi De Leon, Vice President, Equity and Inclusion (jdeleon@unm.edu)

Dr. Nancy López, Chair, Diversity Council Curriculum Committee (nlopez@unm.edu)

Re: Form C Updates for "U.S. & Global Diversity & Inclusion" 3-credit requirement

undergraduate requirement

Thank you for inviting us to your meeting on to discuss the Form C proposed updates to University of New Mexico "U.S. & Global Diversity & Inclusion" 3-credit Undergraduate Requirement implemented in Fall 2015. Over the past year, the Diversity Council Curriculum Committee has assumed the very serious task of providing a first review of the courses submitted to meet the 3-credit "U.S. & Global Diversity & Inclusion" Undergraduate Requirement. We have also included the revised catalog language for the catalog. In order to strengthen the peer review process, the committee has been expanded, has established regular monthly meetings that are posted on the website for the Division of Equity and Inclusion (diverse.unm.edu). All appointments of reviewers are based on voting faculty that have a record of primary scholarship, research, teaching, service and praxis in diversity, equity and inclusion. For a complete list of current members of the Diversity Council Curriculum Committee and meetings please visit: diverse.unm.edu. Syllabi and checklists are available via SharePoint link via Kelsey Molo. Minutes of meetings are also available upon request.

An updated list of courses recommended for inclusion in the list of approved courses is attached. We have also included a list of courses recommended for removal from the list of approved courses. We also include the revised catalog language for the requirement. These changes are required for the following reasons:

- 1. QUALITY ASSURANCE & ASSESSMENT. In order to strengthen the process for continuous quality assurance and assessment for the purposes of accreditation and deeper lifelong learning embedded in the U.S. & Global Diversity Requirement, the Diversity Council Curriculum Committee is proposing clarification regarding the approved learning outcomes.
 - a. U.S. & Global Diversity & Inclusion 3-credit Undergraduate Requirement Courses will dedicate content to two of the four learning outcomes (See attached syllabi checklist).
 - b. At least fifty percent (50%) of the content of the course will need to be focused on the established learning outcomes as it is important to distinguish between courses

that touch on topics from those that cover student learning outcomes content that is in-depth through substantive courses readings, learning activities and other assignments as their primary focus.

- c. Courses will be evaluated using the university course assessment process for the common core.
- 2. RECTIFYING THE UNINTENDED CONSEQUENCE OF APPROVING ALL FOREIGN LANGUAGES (AREA 6 OF THE UNM CORE CURRICULUM) IS THAT IT NULLIFIES THE REQUIREMENT. There was confusion about whether all foreign languages automatically counted as meeting the "U.S. & Global Diversity & Inclusion" requirement. It is important that foreign language courses meet the same standards as all other courses and incorporates the same criteria (e.g., 50% of the content on two of the four learning outcomes). The unintended consequence of approving all foreign language courses is that it nullifies the diversity requirement since there already is a foreign language requirement for all undergraduate students. We understand the concern that at the time the requirement was approved there were not enough courses in the core curriculum; however since the requirement was approved there have been a number of courses that have been added to the core and that are also recommended for inclusion in the list of approved courses.
- 3. REMOVAL OF TOPICS COURSES AND MULTIPLE SECTION COURSES. The approved course list will remove Topics Courses and multiple section courses, as there is no assurance as to when the courses will be offered or if the substance of the primary focus of the course will be consistent from semester to semester. Any courses included will be approved courses listed in the catalog with dedicated titles and a potential for more consistently scheduled offerings.
- 4. REMOVAL OF ERRONEOUSLY LISTED COURSES. Courses will be removed that erroneously appeared on the approved list for advisors that were never part of the approved list reviewed by the Diversity Council Curriculum Committee and submitted for review and approval to Faculty Senate. We are extremely grateful that as of Fall 2014 we now have a staff member from the Office of University Advisement (Kelsey Molo) provided by Vanessa Harris, Director of Student Advisement. Now that we have Kelsey Molo as dedicated staff support for managing the administration of this requirement, it is our hope we can improve communication with faculty, students and minimize errors in terms of the updated list of courses.
- 5. UPDATED LIST OF COURSES RECOMMENDED FOR INCLUSION ON LIST OF APPROVED COURSES& ADA STATEMENT. The approved course list includes those courses that submitted syllabi and met criteria of addressing two of the four learning outcomes with a focus on those learning outcomes in 50% of the class. We also updated the checklist to specifically require that each course syllabi include an ADA statement with information on the relevant office of Accessibility Resources for students.
- 6. RETAINING PREVIOUSLY APPROVED COURSES THAT WERE MISSING ADA STATEMENT, CHECKLIST OR SYLLABI TO ENSURE SUFFICIENT COURSE

CAPACITY. Recognizing that we need sufficient opportunities for students to take the requirement, we have retained some of the courses that were missing either the checklist, ADA statement or syllabus for a one-year period--academic year 2016-2017. During this Spring semester we will launch the U.S. & Global Diversity Inclusive Excellence Academy and we invite all instructors to two lunches sponsored by the Division of Equity & Inclusion. The purpose of these gatherings is to reach out to all faculty that have not submitted checklists, were missing an ADA statement or did not submit a syllabi to a dialogue about the "U.S. & Global Diversity & Inclusion" student learning outcomes. We hope that we will receive all the missing information by early Fall 2017 so we can update the UNM catalog for 2017-2018.

- 7. TRANSFER STUDENTS. Although the changes proposed in this requirement are only applicable to students for the year these proposed changes are included in the catalog (e.g., the earliest cohort affected by these changes would be students entering Fall 2016), if some of these students would like to request transfer credits, they will follow the same process for requesting credit for courses that is used for any other requirement. Specifically, a student requesting transfer credit would need to identify which course in the list of approved courses is equivalent to the course they took. They could meet with an advisor and follow the process for evaluating course equivalencies for transfer credit.
- 8. PROVISION FOR STUDENTS THAT HAVE TAKEN COURSES THAT WERE PREVIOUSLY APPROVED. It is important to underscore that the changes would only apply for students entering in Fall of 2016. A date stamp from the registrar's office will be used to protect students that have already taken courses. The date stamp would be effective from Fall 2014 Spring 2016.
- 9. MEMO TO ADVISORS AND AUDIT SHOULD MAKE THE APPROVED LIST OF COURSES AVAILABLE TO STUDENTS EVEN AFTER THEY MEET THE REQUIREMENT. We request that all advisors are updated on these changes. Also, we request that all approved courses remain visible to student when they visit their degree audits until they graduate. (Note: a current list of approved courses will also be posted on the diverse.unm.edu and unmcore.unm.edu websites). Currently degree audits erase the list of courses that have been identified as meeting the "U.S. & Global Diversity & Inclusion" requirement. We recommend that the student audit system continue to list the entire list of courses approved for meeting the requirement as it may serve as a resource for students looking for courses that address these topics as they progress throughout their academic careers. This may have a deep impact in long-term student success as Dr. George Kuh and many other scholars have substantial research findings pointing to the importance of diversity learning outcomes for deep learning and critical thinking for student success.

Thank you for your dedication to student success. Below is the proposed catalog language.

REVISED CATALOG LANGUAGE

The University of New Mexico values learning outcomes related to diversity and inclusion. The stated aim of the three-credit "U.S. and Global Diversity and Inclusion" undergraduate degree requirement is to promote a broad-scale understanding of the culture, history or current circumstance of diverse categories of people who have experienced historic and/or contemporary inequitable treatment in the U.S. or in a global context. Courses that fulfill the three-credit "U.S. and Global Diversity and Inclusion" undergraduate requirement must have their primary emphasis (at least 50%) on one or more of the following areas: gender, race, class, ethnicity, sexual orientation, disability, religion, language, culture and/or other marginalized category of people and address two of four learning outcomes identified in the syllabi checklist. These courses should include primary learning outcomes pertaining to the experiences of diverse categories of people and potential solutions to the challenges facing diverse communities. Courses can double count with other core or elective courses that have met the aforementioned student learning outcomes. For a list of approved courses fulfilling this requirement, please check with your advisor or visit the website: diverse.unm.edu.

ATTACHMENTS

- 1. List of voting members of the faculty senate serving the and dates and times of meetings. Minutes available upon request.
- 2. Revised checklist; Previously Approved Checklist (Please not there have been no changes to the actual learning outcomes)
- 3. Updated list of courses recommended for meeting the "U.S. & Global Diversity & Inclusion" 3-credit requirement (Note: Courses that can double count in the UNM Core are designated by #).
- 4. List of courses recommended for removal from the list of approved courses.

DEGREE/PROGRAM CHANGE FORM C

Form Number: C1292

Fields marked with * are required
Name of Initiator: Nancy Lopez Email: nlopez@unm.edu Phone Number: 505 277-3101 Date:
Associated Forms exist? No Initiator's Title Associate Professor: Sociology Department
Faculty Contact Nancy Lopez Administrative Contact Nancy Lopez
Department Sociology Admin Email nlopez@unm.edu
Branch Main Admin Phone (505) 453-0503
Proposed effective term Semester Fall Year 2015
Course Information
Select Appropriate Program Undergraduate Degree Program Name of New or Existing Program U.S. and Global Diversity and Inclusion UG Degree Requirement Select Category Degree Degree Type Baccalaureate Select Action New Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and
proposed requirements. See current catalog for format within the respective college (upload a doc/pdf file)
peer institution data on Diversity Requirements.docx
Report on Diversity Requirements at Model Institutions(Curriculum Research Team 2.pdf
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request (enter text below or upload a doc/pdf file)
3 credit Undergraduate diversity Requirement Catalog Narative 1 6 14.docx.dot
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.(upload a doc/pdf file)
peer institution data on Diversity Requirements.docx
Diversity Council 3 or Diversity Undergrad Requirement FSCC Presentation 2.7.14.pdf Report on Diversity Requirements at Model Institutions (Curriculum Research Team pdf
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Report on Diversity Requirements at Model Institutions (Curriculum Research Team.pd

Letter of Support from Dean Brown and Dean Interim Dean Bergman.pdf

President Frank Letter of Support Diveresity Requirement.pdf

Provost Diversity Requirement Letter of Support.pdf

ASUNM Resolution in support of Diversity Requirement 11 16 12.pdf

UNM 3cr undergrad US & Global Diversity & Inclusion Proposal .pdf

map of peer institutions.docx

UNM Faculty Senate Resolution Apr 23 13PDF.pdf

GPSA Resolution in Support of Diversity Requirement Fall 2012.pdf

Diversity Council Framework for Strategic Action 1 28 13.pdf

Copy of Diversity Request Number Students 10102013.xls

us-global-diversity-inclusion-criteria-checklist-jan-06-14.docx

Diversity Requirement Courses Jan 21 2014.xls

Diversity Requirement Executive Summary (1).docx

Freshmen STEM Major Fall 2013 (1).xls

Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.

Upload a two-page Executive Summary authorized by Associate Provost. (upload a doc/pdf file)

Upload memo from Associate Provost authorizing go-ahead to full proposal. (upload a doc/pdf file)

Summary of Faculty Senate Curriculum Committee (FSCC) Recommendations Form C 1779 Equity and Inclusion

Chair FSCC – Carolyn Montoya PhD, CPNP
Associate Professor & Interim Associate Dean
College of Nursing

Background

The UNM requires a 3-credit undergraduate course in U.S. & Global Diversity & Inclusion. Originally any 3-credit foreign language course met this requirement. Since at least 2013 there has been a discussion that the undergraduate requirement must have their primary emphasis (at least 50% content) address one or more combination of the following areas: gender, race, class, ethnicity, sexual orientation, disability, religion and/or other marginalized group(s) and at least two or more key learning outcomes included in Form C 1779.

This change has been presented to the FSCC at least twice in the past 3 years and has not been approved. While the FSCC supports the requirement for a diversity course for all undergraduate students the committee would like the concerns listed below addressed.

- 1. Please explain the committee process for deciding if a course meets the learning outcomes included in Form C1779. For example, does the entire committee review courses or are courses assigned to committee members and then discussed at a general committee meeting?
 - <u>Response</u>: The entire committee will be responsible for this review. A subcommittee of two or more members will be assigned the review and their assessment will be brought forward to the Entire Committee for discussion and a vote. This process will be used at this time, however, at some point we may be able to include the assessment of the learning outcomes as part of the UNM's learning outcomes assessment strategy.
- 2. If a course is rejected as a diversity course is the faculty member notified and provided with a rationale as to why their course was rejected? Is there an appeal process for a course that is rejected?
 - <u>Response:</u> If a course is rejected, the faculty member will be notified and provided with the rationale for the rejection. The faculty member can address the reasons for the rejection and include a revised syllabus and a course approval form for consideration. The committee intends to work with faculty to ensure that their courses are successful in meeting the requirement.
- 3. How often does the committee meet to review courses?

 Response: The committee will meet monthly to ensure that all new courses are considered. After the majority of courses have been reviewed, the committee will meet quarterly.
- 4. Once courses are approved when do they become designated as "diversity" courses? What happens to a student who completed a course which was accepted as a diversity course and then has been removed from the list before the student graduates? Will the course still meet their graduation requirement?
 - <u>Response</u>: We do not anticipate that once a course has been approved, that it will be disapproved unless the course changes in its focus, content or learning outcomes.

- However, if a student takes a course that was designated as meeting the diversity requirement, the student will not be penalized if the course is subsequently removed from the approved list. In addition, the committee would work with the faculty member to address why the course was disapproved in order to give the faculty member an opportunity to meeting approval criteria. We do not want to lose courses that are approved and want to maintain a robust list of approved courses.
- 5. The FSCC would like to know more about the how the process to approve the courses. A link was provided to Share Point but committee members were unable to access the link. Response: The Committee members are all faculty who have taught diversity courses in their colleges. A list can be provided to the FSCC. Vanessa Harris, Director of Advising is an ex-oficio member of the committee to ensure that all the approved courses are included in the advising list and reflected/communicated appropriately to advisors and students. The VP for Equity and Inclusion, while a faculty member who has taught diversity courses in the past, is also ex-oficio and attends meetings to ensure the integrity of the process.
- 6. How is the 50% content determined given that a percentage is a quantitative criteria? What do they do if a course is "marginal"?
 - Response: The 50% content is determined by the amount of time (classes) that topics on the learning outcomes are included and reflected on the syllabus. We recognize that the 50% is not an exact science but the review of the syllabus should reflect that at least half of the classes address topics consistent with the learning outcomes. We hope that faculty will write their class descriptions to reflect content more clearly. This has been a problem for some faculty, but committee members have worked one-on-one with faculty to reflect class content more accurately and meet the requirement. We will also have some sessions with faculty interested in submitting a course for consideration so that we ensure faculty are successful when they submit. We will also post sample syllabi and course forms online so that faculty can see what they should include.

MEMORANDUM

October 30, 2015

To: Faculty Senate Undergraduate Committee and Curriculum Committee

From: Dr. Jozi De Leon, Vice President, Equity and Inclusion (jdeleon@unm.edu)
Dr. Nancy López, Chair, Diversity Council Curriculum Committee
(nlopez@unm.edu)

Re: Form C Updates for "U.S. & Global Diversity & Inclusion" 3-credit requirement undergraduate requirement

Thank you for inviting us to your meeting on to discuss the Form C proposed updates to University of New Mexico "U.S. & Global Diversity & Inclusion" 3-credit Undergraduate Requirement implemented in Fall 2015. Over the past year, the Diversity Council Curriculum Committee has assumed the very serious task of providing a first review of the courses submitted to meet the 3-credit "U.S. & Global Diversity & Inclusion" Undergraduate Requirement. We have also included the revised catalog language for the catalog. In order to strengthen the peer review process, the committee has been expanded, has established regular monthly meetings that are posted on the website for the Division of Equity and Inclusion (diverse.unm.edu). All appointments of reviewers are based on voting faculty that have a record of primary scholarship, research, teaching, service and praxis in diversity, equity and inclusion. For a complete list of current members of the Diversity Council Curriculum Committee and meetings please visit: diverse.unm.edu. Syllabi and checklists are available via SharePoint link via Kelsey Molo. Minutes of meetings are also available upon request.

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 - a. U.S. & Global Diversity & Inclusion 3-credit Undergraduate Requirement Courses will dedicate content to two of the four learning outcomes (See attached syllabi checklist).
 - b. At least fifty percent (50%) of the content of the course will need to be

focused on the established learning outcomes as it is important to distinguish between courses that touch on topics from those that cover student learning outcomes content that is in-depth through substantive courses readings, learning activities and other assignments as their primary focus.

- c. Courses will be evaluated using the university course assessment process for the common core.
- 2. RECTIFYING THE UNINTENDED CONSEQUENCE OF APPROVING ALL FOREIGN LANGUAGES (AREA 6 OF THE UNM CORE CURRICULUM) IS THAT IT NULLIFIES THE REQUIREMENT. There was confusion about whether all foreign languages automatically counted as meeting the "U.S. & Global Diversity & Inclusion" requirement. It is important that foreign language courses meet the same standards as all other courses and incorporates the same criteria (e.g., 50% of the content on two of the four learning outcomes). The unintended consequence of approving all foreign language courses is that it nullifies the diversity requirement since there already is a foreign language requirement for all undergraduate students. We understand the concern that at the time the requirement was approved there were not enough courses in the core curriculum; however since the requirement was approved there have been a number of courses that have been added to the core and that are also recommended for inclusion in the list of approved courses.
- 3. REMOVAL OF TOPICS COURSES AND MULTIPLE SECTION COURSES. The approved course list will remove Topics Courses and multiple section courses, as there is no assurance as to when the courses will be offered or if the substance of the primary focus of the course will be consistent from semester to semester. Any courses included will be approved courses listed in the catalog with dedicated titles and a potential for more consistently scheduled offerings.
- 4. REMOVAL OF ERRONEOUSLY LISTED COURSES. Courses will be removed that erroneously appeared on the approved list for advisors that were never part of the approved list reviewed by the Diversity Council Curriculum Committee and submitted for review and approval to Faculty Senate. We are extremely grateful that as of Fall 2014 we now have a staff member from the Office of University Advisement (Kelsey Molo) provided by Vanessa Harris, Director of University Advisement. Now that we have Kelsey Molo as dedicated staff support for managing the administration of this requirement, it is our hope we can improve communication with faculty, students and we minimize errors in terms of the updated list of courses.
- 5. UPDATED LIST OF COURSES RECOMMENDED FOR INCLUSION ON LIST OF APPROVED COURSES& ADA STATEMENT. The approved course list includes those courses that submitted syllabi and meet criteria of addressing two of the four learning outcomes with a focus on those learning outcomes in 50% of the class. We also updated the checklist to specifically require that each course syllabi include an ADA statement with information on the relevant office



of Accessibility Resources for students.

- 6. RETAINING PREVIOUSLY APPROVED THAT WERE MISSING ADA STATEMENT, CHECKLIST OR SYLLABI TO ENSURE SUFFICIENT COURSE CAPACITY. Recognizing that we need sufficient seats for students, we have retained some of the courses that were missing either the checklist, ADA statement or syllabus for a one-year period--academic year 2016-2017. During this Spring semester we will launch the U.S. & Global Diversity Inclusive Excellence Academy and we will invite all instructors to two lunched sponsored by the Division of Equity & Inclusion. The purpose of these gathering is to reach to all faculty that have not submitted checklists, were missing an ADA statement or did not submit a syllabi to a dialogue about the "U.S. & Global Diversity & Inclusion" student learning outcomes. We hope that we will receive all the missing information by early Fall 2017 so we can update the UNM catalog for 2017-2018.
- 7. TRANSFER STUDENTS. Although the changes proposed in this requirement are only applicable to students for the year these proposed changes are included in the catalog year (e.g., the earliest cohort affected by these changes would be students entering Fall 2016), if some of these student would like to request transfer credits, they will follow the same process for requesting credit for courses that is used for any other requirement. Specifically, a student requesting transfer credit would need to identify which course currently listed in the list of approved courses it is requesting credit for and advisors would used each colleges respective process for evaluating equivalencies.
- 8. PROVISION FOR STUDENTS THAT HAVE TAKEN COURSES THAT WERE PREVIOUSLY APPROVED. It is important to underscore that the changes would only apply for students entering in Fall of 2016. A date stamp from the registrar's office will be used to protect students that have already taken courses. The date stamp would be effective from Fall 2014 Spring 2016.
- 9. MEMO TO ADVISORS AND AUDIT SHOULD MAKE THE APPROVED LIST OF COURSES AVAILABLE TO STUDENTS EVEN AFTER THEY MEET THE REQUIREMENT. We request that all advisors are updated on these changes college by college. Also, we request that all approved courses remain visible to student when they visit their degree audits until they graduate. (Note: a current list of approved courses will also be posted on the diverse unm.edu and unmcore unm.edu websites). Currently degree audits erase the list of courses that have been identified as meeting the "U.S. & Global Diversity & Inclusion" requirement. We recommend that the student audit system continue to list the entire list of courses approved for meeting the requirement as it may serve as a resource for students looking for courses that address these topics as they progress throughout their academic careers. This may have a deep impact in long-term student success as Dr. George Kuh and many other scholars have substantial

research findings pointing to the importance of diversity learning outcomes for deep learning and critical thinking for student success.

Thank you for your dedication to student success. Below is the proposed catalog language.

REVISED CATALOG LANGUAGE

The University of New Mexico values learning outcomes related to diversity and inclusion. The stated aim of the three-credit "U.S. and Global Diversity and Inclusion" undergraduate degree requirement is to promote a broad-scale understanding of the culture, history or current circumstance of diverse categories of people who have experienced historic and/or contemporary inequitable treatment in the U.S. or in a global context. Courses that fulfill the three-credit "U.S. and Global Diversity and Inclusion" undergraduate requirement must have their primary emphasis (at least 50%) on one or more of the following areas: gender, race, class, ethnicity, sexual orientation, disability, religion, language, culture and/or other marginalized category of people and address two of four learning outcomes identified in the syllabi checklist. These courses should include primary learning outcomes pertaining to the experiences of diverse categories of people and potential solutions to the challenges facing diverse communities. Courses can double count with other core or elective courses that have met the aforementioned student learning outcomes. For a list of approved courses fulfilling this requirement, please check with your advisor or visit the website: diverse.unm.edu.

ATTACHMENTS

- 1. List of voting members of the faculty senate serving the and dates and times of meetings. Minutes available upon request.
- 2. Revised checklist; Previously Approved Checklist (Please not there have been no changes to the actual learning outcomes)
- 3. Updated list of courses recommended for meeting the "U.S. & Global Diversity & Inclusion" 3-credit requirement (Note: Courses that can double count in the UNM Core are designated by #).
- 4. List of courses recommended for removal from the list of approved courses.

<u>Diversity Council Curriculum Subcommittee Members</u>

Chair of DC Curriculum Subcommittee:

Nancy Lopez: Associate Professor, Sociology

Voting Members:

Robin Minthorn: Assistant Professor, LLSS Glenabah Martinez: Associate Professor, LLSS Jan Armstrong: Associate Professor, LLSS

Jamal Martin: Director, Peace and Justice Studies; Assistant Professor, Department of

Family & Community Medicine; Lecturer III, Africana Studies

Karla Kingsley: Associate Professor, Teacher Education Pisarn Bee Chamcharatsri: Assistant Professor, LLSS

Sonia Rankin: Associate Dean & Lecturer, Africana Studies; Associate Dean, University

College

Ana Alonso-Minutti: Assistant Professor of Music, College of Fine Arts

Non-Voting:

Vanessa Harris: Director, Office of University Advisement

Kelsey Molo: Administrative Coordinator, Office of University Advisement

Provost Diversity Council Co-chairs:

Nancy Lopez: Associate Professor, Sociology

Kiran Katira: Program Operations Director, Community Engagement Center

VP for Equity and Inclusion:

Jozi De Leon: VP for Equity and Inclusion

The Diversity Council Curriculum Committee Subcommittee reviews syllabi for inclusion in the list of course meeting the 3-credit undergraduate, "U.S. and Global Diversity & Inclusion" requirement. The regular meetings of the Diversity Council Curriculum Subcommittee take place on 12 – 2 PM on the last Monday of every month during the regular academic year.

The Committee meets in UCAM or UAC Conference Room (UAEC 175 or UAEC 105). These are always open meetings. Anyone is welcome to attend.

	-		Courses to be removed from Original lis	ւ
	Course Prefix	Course Number	Course Title	Reason for removal
1	AFST	150	Foundations of Africana Studies	NOT IN CATALOG Did not submit a syllabus or checklist
2	AFST	250	Black women	NOT IN CATALOG Did not submit a syllabus or checklist
3	AFST	332	African Literature and Post Colonial Development	NOT IN CATALOG Did not submit a syllabus or checklist
4	AFST	380	Comp Lit	Special topics
5	AFST	380	Children in Conflict	Special topics
6	AFST	380	Great Books	Special topics
7	AFST	380	Postcolonial Development	Special topics
8	AFST	380	African Women Writers	Special topics
9	AFST	392	Black Liberation and Religion	NOT IN CATALOG Did not submit a syllabus or checklist
10	AFST	397	Rebels	Special topics
11	AFST	397	African Great Books	Special topics
12	AFST	580	Great Books	NOT IN CATALOG Did not submit a syllabus or checklist
13	AMST	315	Race, Class and Gender in the Culture Industry	NOT IN CATALOG Did not submit a syllabus or checklist
14	AMST	352	Native American Cultural Production	NOT IN CATALOG
				Did not submit a syllabus or checklist
15	AMST	332	Politics of Sex	Not in catalog
16	AMST	354	Social Class and Inequality	NOT IN CATALOG Did not submit a syllabus or checklist
17	AMST	426	Native American Representation and Resistance	NOT IN CATALOG Did not submit a syllabus or checklist
18	AMST	550	Decolonizing Culture and Race Identity	Special topics
19	AFST	491	African American Religious Traditions	NOT IN CATALOG Did not submit a syllabus or checklist
20	ANTH	130	Anthropology of Hunger	(remove from list per instructor - course was one-time course)
21	ANTH	340	Culture & P	Special topics
22	ANTH	340	Indigenous People of North America	Special topics
23	ANTH	365	Anthropology of Health	NOT IN CATALOG Did not submit a syllabus or checklist
24	ARAB	101	Elementary Arabic I	Did not submit a checklist
25	ARSC	198	International Studies and Careers	Irregular offerings
26	ARSC	198	Fairytales	Irregular offerings
27 28	ARTE ARTH	593 429	Sexual Identity and Social Justice in Art Education Visual Agendas: Pro- and Anti- Abolitionist images in American and	Special topics Special topics
29	ARTH	429	British Art and Culture The Victorian Nude	Special topics
30	ARTH	449	Art of Spain	Special topics Special topics
31	ARTH	449	African American Art	Special topics
32	ARTH	482	India During British Rule	syllabus only - 482 not in catalog
33	ARTH	582	Race, Gender, and History	Seminar course
34	CHIN	101	Chinese	never submitted a syllabus
35	CHIN	201	Chinese	never submitted a syllabus
36	CHIN	300	Women in China	300 not in catalog
37	CHIN	320	Study Abroad: Issues of Contemporary China	topics-like
38	CHIN	370	Topics in 20th Century Chisese Film	topics-like
39	COMP	115	Communication Across Cultures	multiple section course - attached to FLC Did not submit a syllabus or checklist
40 41	COMP COMP	222 331	Fairy and Folk Tales Modern China in Literature and Film	Special topics
42	COMP	331	Intro to China: Literature, History, and Though	Special topics Special topics
43	COMP	432	Inventing America	Special topics Special topics
44	CRP	422	Indigenous Planning	Not in catalog
45	DANC	105	Dance Appreciation	Did not submit a checklist
46	DANC	116	Mexican Folk Dance	Did not submit a syllabus or checklist
47	DANC	127	African Dance I	Did not submit a syllabus or checklist
48	DANC	169	Flamenco	Did not submit a syllabus or checklist
49	ENGL	292	World Literature Ancient to 1600	Not approved by committee
50	ENGL	293	World Literature : 17th Century to Present	Not approved by committee
51	ENGL	340	Professional Writing in Globalized World	Did not submit a syllabus or checklist
52	ENGL	360	Jane Austen	Not in catalog
53	ENGL	364	Native American Women Writers	topics-like
54	ENGL	365	Chicano/a Cultural Studies	topics-like

	DNG	400	D. C Market and D. Live H.	0 11 1
55 56	ENGL ENGL	420 455	Professional Writing in Globalized World Women Writers and Fictions of Seduction and Rape	Special topics
57	ENGL	458	Modern British Literature	Special topics topics-like
58	ENGL	464	20th Cenutry Native American Literature	topics-like
59	ENGL	465	Chicano/a Narrative	topics-like
60	ENGL	468	Asian American Literature	Special topics
61	ENGL	474	Contemporary Southwest Literature	topics-like
62	ENGL	555	Women Writers	never submitted a syllabus
63	ENGL	574	Contemporary Southwest Literature	topics-like
64	ENGL	568	Asian American Literature	Special topics
65	ENGL	650	Post Colonialism	Seminar course
66	FREN	175	French	never submitted a syllabus
67	FREN	201	French	never submitted a syllabus
68	FREN	332	Rebels Without a Cause	Not in catalog
69 70	GEOG GEOG	102 464	Intro to Human Geography Food and Natural Resources	Not approved by committee
70	GRMN	201	German	Not approved by committee never submitted a syllabus
72	GRMN	201	German	never submitted a syllabus
73	HIST	300	North American Borderlands	Special topics
74	HIST	300	Europe & the Balkans	Special topics
75	HIST	300	The Irish Diaspora	Special topics
76	HIST	300	Medieval Minorities: Persecution, Tolerance & Coexistence	Special topics
			,	NOT IN CATALOG
77	HIST	320	History of Women from Ancient Times to the Enlightment	Did not submit a syllabus or checklist
78	HIST	321	Women in the Modern World	NOT IN CATALOG
76	11131	321	women in the Modern world	Did not submit a syllabus or checklist
79	HIST	322	History of the Women's Rights Movement	NOT IN CATALOG
,,	11101	322	motory of the Women's ragins Provenient	Did not submit a syllabus or checklist
80	HIST	324	Modern History of the Jewish People	NOT IN CATALOG
	_		,	Did not submit a syllabus or checklist
81	HIST	344	U.S Women to 1865	NOT IN CATALOG
				Did not submit a syllabus or checklist
82	HIST	364	Contemporary Chicano(a) History	NOT IN CATALOG Did not submit a syllabus or checklist
83	HIST	387	Modern Middle East	Special topics
				NOT IN CATALOG
84	HIST	375	Rebellion and Revolution in Modern Andean Nations	Did not submit a syllabus or checklist
85	HIST	473	Indigenous Peoples in Latin America	Not in catalog
86	HIST	300	India During the British Rule	Did not submit a syllabus or checklist
87	HIST	471	Women in Early Latin America	not in catalog
88	HIST	684	Seminar: Chicano Political and Intellectual Theory	Seminar course
89	IFDM/LTAM	400	LTAM 400: Topics in Latin America Studies	Topics
90	JAPN	200	Gender in Japanese Culture	Special topics
91	JAPN	200	Imperial & Colonial Japan	Special topics
92 93	JAPN	201 320	Japanese	Did not submit a checklist
93	JAPN JAPN	339	Japanese Society Topics in Japanese Literature and Culture in Translation	Special topics
			ropics in japanese Literature and Culture in Translation	Special topics NOT IN CATALOG
95	LEAD	600	An Ethnographic Examination of College Students	Did not submit a syllabus or checklist
96	LEAD	593	Diversity and Multiculturalism in Higher Education	Special topics
97	LEAD	595	Anthropology	Advance Field Experiences
98	LLSS	593	Critical Theory and Education	Special topics
99	MGMT	490	Women in Management	Special topics in Management (offered upon demand)
100	MGMT	490	Indigenous Entrepreneurship	Special topics in Management (offered upon
		100	Biblical Hebrew	demand)
101 102	MLNG NATV	109 450	Indigenous Leadership (requested to be omitted from list)	Not in catalog Topics in Native American Studies
			Native American Vote and Political Ambivalence (requested to be	•
103	NATV	450	omitted from list)	Topics in Native American Studies
104	NATV	450	Principles of Leadership	Topics in Native American Studies
105	NATV	450	Digital (requested to be omitted from list)	Topics in Native American Studies
106	NATV	4 50	Native American Newspaper Publications (requested to be omitted from list)	Topics in Native American Studies
107	NATV	450	Critical Navajo Studies (requested to be omitted from list)	Topics in Native American Studies
108	NURS	331L	Principles and Application, Community Assessment	Did not submit a syllabus or checklist
109	NVJO	101	Elementary Navajo for Non-Native Speakers	Did not submit a syllabus or checklist
110	NVJO	102	Elementary Navajo for Non-Native Speakers	Did not submit a syllabus or checklist
111	NVJO	201	Intermediate Navajo	never submitted a syllabus
112	NVJO	202	Intermediate Navajo Creative Writing and Advanced Reading	Did not submit a syllabus or checklist Did not submit a syllabus or checklist
113	NVJO	206		

114	OCTH	499	Introduction to Mexican Traditional Medicine	No longer a course - per instructor
115	OILS	493	Roots of Poor Health & Action at the Local Level	Special topics
116	PADM	590	Native American Economic Development	Topical seminar
117	PADM	590	Native American Economic Development	Special topics
118	PCST	221	Global Issues	Did not submit a syllabus or checklist
119	PHIL	101	Introduction to Philosophical Problems	Multiple section - dept chair not sure if should be included
120	PHIL	441	Philosophy of Gender (Remove per instructor)	Topics: Figures & Movement
121	POLS	300	Comparative Health Policy	Special topics
122	PORT	201	Intermediate Portuguese	Did not submit a syllabus or checklist
123	PORT	275	Intensive Intermediate Portuguese	Did not submit a syllabus or checklist
124	PORT	276	Intensive Intermediate Portuguese	Did not submit a syllabus or checklist
125	RUSS	201	Intermediate Russian I (Remove from list per instructor)	Remove from list per instructor
126	RUSS	202	Intermediate Russian II (Remove from list per instructor)	Remove from list per instructor
127	SHS	459	Multicultural Considerations in Communication	NOT IN CATALOG Did not submit a syllabus or checklist
128	SOC	101	Introduction to Sociology	Did not submit a syllabus or checklist
129	SOC	398	Special Topics: Community Organizing	Special topics
130	SOC	507	Intersectionalities: Races and Gender	Special topics
131	SOC	507	Race and Education	Special topics
132	SPAN	200	Intermediate Spanish Abroad	Did not submit a syllabus or checklist
133	SPAN	201	Intermediate Spanish I	Did not submit a syllabus or checklist
134	SPAN	202	Intermediate Spanish II	Did not submit a syllabus or checklist
135	SPAN	203	Spanish Conversation	never submitted a syllabus
136	SPAN	212	Intermediate Spanish as a Heritage Lang. II	never submitted a syllabus
137	SPAN	212	Intermediate Spanish as a Heritage Language II	never submitted a syllabus

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DEGREE/PROGRAM CHANGE FORM C Form Number: C1361
Fields marked with * are required
Name of Initiator: Ziarat Hossain
Proposed effective term Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BA Family Studies Select Category * Major ▼ Degree Type BA Select Action Revision ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file) FCS BA.docx 4 Year Degree Plan FCS-BA.docx
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) [REGISTRAR'S NOTE: THIS FORM REQUESTS A CHANGE OF NAME FOR THE MAJOR AS WELL AS CHANGES TO PROGRAM REQUIREMENTS.] This is part of a significant revision of the Family Studies (FS) program that includes major curriculum changes to the ex BS degree. The revised BS degree will be in Child and Family Studies (FCS). In line with this change, we need to revise the core curriculur the BA degree in FCS. The revision will result in minimal curricular changes. FCS majors for B.S. (for College of Education students) and B (for College of A&S students) degrees would be able to take the same 12 credits of super core courses (FCS 281, 305, 481, 484). Also, this change will allow FCS - B.A. students more flexibility in selecting elective courses.
FCS BA.docx
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
Justification - Budget.docx
Are you proposing a new undergraduate do green or new undergraduate contists to 0.15
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)
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B.A. in Family and Child Studies (revised)

(Arts and Sciences Students)

Major: Family and Child Studies

FCS Core Curriculum		12 Credits	
FCS 105	Introduction to Family and Child Studies	3	
FCS 305	Research and Evaluation in Family and Child Studies	3	
FCS 481	Families, Children and Public Policies	3	
FCS 484	The Sociocultural Context of Children and Families	3	
Other Required Curriculum		12 Credits	
FCS 213	Marriage and Family Relationships	3	
FCS 312	Parent-Child Interactions	3	
FCS 343	Family Management Theories	3	
FCS 395	Field Experience I	3	
Additional FCS Curriculum _		_ 12 Credits	
Total Required Hours		36 Credits	
To fulfill <u>additional 12 FCS credits</u> , take any four courses from the list below:			
FCS 203	Infant Growth and Development	3	
FCS 304	Growth and Development in Middle Childhood	3	
FCS 310	Friends and Intimate Relationships	3	
FCS 311	Family Language and Culture	3	
FCS 313	Family Theories and Contemporary Lifestyles	3	
FCS 315	Adolescent Development in the Family	3	
FCS 321	Young Children with Diverse Abilities	3	
FCS 341	Ecological Aspects of Housing	3	
FCS 344	Consumer Decisions	3	
FCS 401	Research in Child Growth, Dev. & Learning	3	
FCS 403	Growth and Development of the Preschool Child	3	
FCS 411	Marriage and Family Life Education	3	
FCS 412	Fathering	3	
FCS 416	Adult Development in the Family	3	
FCS 443	Application of Family Management Theories	3	

^{*} For Minor and General Education Requisites, please consult with your advisor in your College.

B.A. in FAMILY STUDIES

(Arts and Sciences Students)

Major: Family Studies (Existing Curriculum)

Family Studies Courses

Family Studies	21 Credits	
FS 213	3	
FS 281	Introduction to Family Studies	3
FS 312	Parent-Child Interactions	3
FS 343	Family Management Theories	3
FS 395	Field Experience I	3
FS 481	Family and Public Policy	3
FS 484	Ethnic Minority Families	3
Family Resour	ce Management	9 Credits
FS 341	Ecological Aspects of Housing	3
FS 344	Consumer Decisions	3
FS 443	Application of Family Management Theories	3
FS 444	Family Finance	3
Human Develo	ppment and Family Relations	6 Credits
FS 202	Infant Growth and Development	3
FS 304	Growth and Development in Middle Childhood	3
FS 310	Friends and Intimate Relationships	3
FS 313	Family Theories and Contemporary Lifestyles	3
FS 315	Adolescent Development in the Family	3
FS 403	Growth and Development of the Preschool Child	3
FS 411	Marriage and Family Life Education	3
FS 412	Fathering	3
FS 416	Adult Development in the Family	3
Total Required	Hours	36 Credits

Updated: March 2011

^{*} For General Education Requisites, please consult with your advisor in your College.

Justification, Impact, Budget, Faculty Workload

This change is a revision of an existing program (i.e., BA in Family Studies) in the IFCE department. Under the proposed changes the A&S students will receive a BA in Family and Child Studies (FCS). We are proposing to revise the course curriculum so that BA (for A&S students) and BS (COE students) majors take the same core courses. Also, the proposed change will allow the BA majors more flexibility in choosing elective courses in FCS program. The change has no budgetary and faculty load implications since we are not introducing any new courses or requirements. Students will continue to take a total of 36 credits in the FCS degree program as in the existing Family Studies (FS) program. Also, for details, see Executive Summary of the merger.

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DEGREE/PROGRAM CHANGE FORM C Form Number: C1362		
Fields marked with * are required		
Name of Initiator: Ziarat Hossain		
Proposed effective term Semester Fall ▼ Year 2016 ▼		
Course Information		
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* Human Development and Family Relations Minor Select Category * Minor ▼ Degree Type Select Action Deletion ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)		
Does this change affect other departmental program/branch campuses? If yes, indicate below. Reason(s) for Request* (enter text below or upload a doc/pdf file) As part of a significant revision of the Family Studies (FS) program, we will no longer offer a minor in Human Development and Family Relations (HDFR). Courses used in HDFR minor will be accommodated in a revised minor named Family and Child Studies (FCS). It may be worthwhile to mention that the proposed FCS minor is a revision of an existing minor (Family Studies) and a separate FORM C has been submitted for FCS minor.		
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)		
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.		
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)		
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)		
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	ROGRAM CHANGE
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Fields marked with * are required	
Name of Initiator: Stephen Burd Email: burd@unm.edu Pho	one Number: 505 277-6418
Associated Forms exist?* Yes ▼ Initiator's Title*	Associate Professor: ASM Mrkting Info Decision Sci
Faculty Contact* Stephen Burd	Administrative Contact* Stephen Burd
Department* ASM MIDS	Admin Email* burd@unm.edu
Branch	Admin Phone* 505-277-6418
Proposed effective term Semester Fall ▼ Year 2016 ▼	
Co	ourse Information
Select Appropriate Program* Graduate Degree Program Name of New or Existing Program* MS Information Systems & A Select Category * Degree Degree Type MS Select Action Revision	▼ Assurance
Exact Title and Requirements as they should appear in the ca See current catalog for format within the respective college (uplo	talog. If there is a change, upload current and proposed requirements.* ad a doc/pdf file)
MsisaProgramUpdates_DraftProposal_20150829.doc	
Does this change affect other departmental program/bran	nch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf fine tune admission requirements, clarify role of plan of study vi	ile) is a vis graduation, and update courses based on current offerings.
Upload a document that inlcudes justification for the program workload implications.* (upload a doc/pdf file)	, impact on long-range planning, detailed budget analysis and faculty
FormC_BudgetAndFacultyLoad_20150922.doc	
Are you proposing a new undergraduate degree or new un	ndergraduate certificate? If yes, upload the following documents.
Upload a two-page Executive Summary authorized by Associa	ate Provost.* (upload a doc/pdf file)
Upload memo from Associate Provost authorizing go-ahead to	o full proposal.* (upload a doc/pdf file)
	mments on this Form his Form or Review Forms
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Proposed Updates to MS in Information Systems and Assurance

Executive Summary

The MS-ISA Program has been in operation since Fall 2014. It has graduated 25 students and has approximately 60 currently active students. The original program proposal was developed in late 2012 and was not updated as it moved through the approval process to avoid approval delays. Experience with a year's worth of admissions and plans of study have shown that some of the underlying assumptions of the original program were inaccurate or were not well-incorporated into catalog language. Further, because the technology focus areas of the program change rapidly, some changes in the program are needed to fine-tune its content to match current technology and market demands.

In summary form, the proposed changes are:

- 1. Include professional communications in the program via undergraduate course and/or professional skill prerequisites rather than formal graduate coursework.
- 2. Expand the course selection within the management group to include MGMT 501 (Data Driven Decision Making)
- 3. Adjust the program's catalog description to make it clear that conformity with an approved plan of study is a graduation requirement
- 4. Adjust the courses that comprise the Technology Group to reflect an expanded range of options.
- 5. Adjust program admission requirements to allow both undergraduate and graduate coursework to count toward the 30 credit hour requirement for management, computer science, or computer engineering courses. Also, modify the wording of the requirement to make it clear that accounting and information systems courses are included.
- 6. Assign permanent course numbers to Data Warehousing and Data & Text Mining (currently offered as MGMT 639 sections) and include both of the new courses in the Technology Group.

All of the proposed changes would be implemented for Fall 2016.

Details of and rationale for the changes are included below. Current catalog language for the program and updated language that incorporates all of changes proposed herein are included as appendices to this proposal. Syllabi for the new courses are also included as appendices.

Professional Communications

When the original MS-ISA program proposal was developed there was a parallel proposal under development to modify the MBA program. One feature of the MBA proposal was a required two credit course in Professional Communications. The MS-ISA proposal also incorporated this course under the assumption that those skills were needed by program graduates, especially those with undergraduate backgrounds that presumably lacked significant communication content such as computer science (CS) and engineering. The new course was created as MGMT 533 and is currently in the UNM catalog though it has never been offered. A similar three credit course (MGMT 733) does exist and is offered once per year as part of the Executive MBA program

The MBA proposal that included MGMT 533 was never approved. In addition, subsequent experience with MS-ISA admission have shown that most entering students already possess significant professional communication skills gained through undergraduate courses, professional experience, or both. This is true even for international students and for students with undergraduate backgrounds in CS or engineering. As such, at most a handful of entering students need a professional communications course each year – too few to justify offering and staffing the course if there are other alternatives.

Other alternatives include courses already offered at UNM and elsewhere and incorporated into Bachelor's level programs. Examples include ENGL 219 (Technical Writing) and CJ 130 (Public Speaking). Communications and Journalism also offers more advanced professional communication courses including CJ 332 (Business and Professional Speaking) and CJ 333 (Professional Communication).

Proposal

- Remove MGMT 533 from the Required Group and remove the course from the catalog
- Change the number of Required Group Credit Hours from 11 to 9.
- Change the minimum number of Technology Group credit hours from 9 to 11.
- Add the following requirement to the list of admission requirements:

Proficiency in English-language professional communications demonstrated by undergraduate courses, professional experience, or both. Students who lack proficiency may be admitted provisionally but must complete one or two undergraduate professional communication courses selected by the faculty advisor or admission committee in the first two semesters with grades of B or better.

MGMT 501

Managerial statistics and related decision-making techniques aren't currently included in the program unless specifically incorporated within courses technical group courses in analytics. Incorporating MGMT 501, an existing MBA core course, would serve multiple purposes:

- Recognize the pervasive role of statistics in modern management
- Enable more students to include MGMT 520 in their management group courses (MGMT 501 is a prerequisite)
- Eliminate the need to override current program requirements for students focusing on data analytics but lacking substantial or recent statistical skills

Proposal

Add MGMT 501 to the list of Management Group courses

Plans of Study and Graduation Requirements

Current program requirements state that an approved plan of study is a program admission requirement. The plan of study is a roadmap from the student's current profile of knowledge, skills, and experiences to a graduation profile that maximizes the student's ability to achieve his or her educational and career objectives.

The intent of the committee that developed the program was to ensure that students were well-advised and that all graduates achieved a level of educational and professional attainment that reflect well on ASM, UNM, and by extension, all program graduates. The process of developing and updating plans of study is cooperative. It establishes a partnership between MS-ISA faculty members and the student that serves the interest of both.

Although those intentions is well-represented in current admissions policy and advisement practice, they aren't formally incorporated into graduation requirements. Were a student to deviate from the faculty-approved plan of study but still meet "the letter" of other program requirements, the issue of whether they are eligible for graduation would be unclear. The intent of the proposed change is to clarify the original intent that the plan of study is a binding contract on both ASM and the student and that describes graduation requirements specific to the student.

Proposal

 Replace the content under the current heading Advisement and Plan of Study with the following:

Advisement prior to first-semester enrollment and a formal plan of study are mandatory. A faculty advisor or committee will work cooperatively with each admission candidate to develop and approve a plan that includes specific courses that match the student's intended career path, complements his or her bachelor's degree and work experience, and ensures that each program graduate reflects positively on UNM, ASM, and the MS-ISA program. Modifications to the initial plan of study may be requested by the student at any time but must be approved by the faculty advisor or committee. Each approved plan is a student-specific set of courses that must be successfully completed for that student to graduate.

Admission Requirements - Undergraduate Courses

Current catalog language includes an admission requirement for *Completed Bachelor's degree with at least 30 credit hours of courses in management, computer science, or computer-related engineering*. The intent of the requirement was to ensure a minimum preparation bar in one or more of the included areas. As a practical matter, that bar accomplishes two purposes:

- Prevents students with very weak or non-existent backgrounds in the aforementioned areas from being admitted, which indirectly ensures a minimum quality level for program graduates.
- Ensures that most students waive some combination of management group and required group courses, effectively increasing the depth of technical group preparation.
- Provides flexibility in the way the previous purpose is realized by generating management group course waivers for students with a BBA and required/technical group waivers for students with a CS or engineering Bachelor's degree.

The current catalog language doesn't specifically incorporate accounting nor management information systems courses though they've been operationally defined as being included within management courses. More problematic, the current language doesn't enable students to fulfill the intent of the requirement with graduate courses not included as part of the plan of study. The proposed change updates catalog language to clarify the breath of management courses and that either undergraduate or graduate courses may be used to fulfill the requirement.

Proposal

- Replace the first bullet under the heading Admission Requirements with the following two bullets:
 - o Completed bachelor's degree.
 - At least 30 credit hours of undergraduate or graduate courses in management, accounting, information systems, computer science, computer-related engineering, or a combination thereof.

New Courses

Two currently offered sections of MGMT 639 are proposed as individually numbered and cataloged courses. Both courses have been taught twice and both are key components of the data analytics focus area within the MS-ISA. See appendices for course syllabi.

Proposal

Create two new courses as follows:

- MGMT 645 Data & Text Mining (3 credits) Need catalog description Pre- or co-requisite:
 MGMT 635. Recommended pre- or co-requisite: MGMT 329 or 637
- MGMT 644 Data Warehousing (3 credits) Need catalog description Prerequisite: MGMT 329 or 637. Pre- or co-requisite: MGMT 635

Technology Group Courses

Course offerings have expanded in related technology focus areas since the MS-ISA was first proposed. Expanding the list of technology group courses to incorporate additional courses will formalize a greater range of options for students. Also, the graduate internship course (MGMT 697) isn't currently included in the program but it should be incorporated to enable students who would been benefit from that inclusion to do so.

Proposal

- Add the following courses to the list of technology group courses:
 - MGMT 645 (Data & Text Mining)
 - MGMT 644 (Data Warehousing)
 - MGMT 697 (Internship)
 - CS 521 (Data Mining Techniques)
 - o CS 567 (Principles and Applications of Big Data)
 - CS 583 (Object-Oriented Testing)
 - ECE 525 (Hardware-Oriented Security and Trust)
 - o <u>ECON 309 (Introductory Statistics and Econometrics)</u>

Appendix A Current MS-ISA Program Description

Master of Science in Information Systems and Assurance

Introduction

The Master of Science (M.S.) in Information Systems and Assurance degree is targeted to students holding a B.B.A. or similar degree with an accounting specialization, a B.B.A. or similar degree with a specialization in information systems or technology, or a B.S. in computer science or computer-related engineering. The degree prepares students for advanced positions in information system management, information system development, and information assurance.

Admission Requirements

- Completed bachelor's degree with at least 30 credit hours of courses in management, computer science, or computer-related engineering.
- A grade point average of 3.0 for the last 60 credit hours of college coursework, including any post-baccalaureate work.
- A score equal to or greater than 500 on the Graduate Management Admission Test (GMAT), or a
 Graduate Record Examination (GRE) score that is equal to or greater than 500 on the quantative
 section and a score equal to or greater than 500 on the verbal section.

Advisement and Plan of Study

Advisement prior to first-semester enrollment and a formal plan of study is mandatory. Individual students are advised to enroll in specific classes that match their intended career path and complement their bachelor's degree and work experience. Plan of study approvals are granted by a designated faculty advisor or committee.

Program Requirements

Students must complete a minimum of 32 credit hours of courses within the following groups:

Core Group: 11 credit hours - Courses may be waived based on similar undergraduate/graduate courses or experience.				
MGMT 533	Professional Communications	2		
MGMT 631	Information System Project Management	3		
MGMT 636	Information Systems Security	3		
MGMT 637	Database Management Systems	3		
Management Group: 12 credit hours minimum - Up to 12 credit hours may be waived based on similar undergraduate/graduate courses or experience. Select from:				
MGMT 502	Financial Accounting and Analysis	3		
MGMT 503	Managerial-Cost Accounting	3		
MGMT 506	Managing People in Organizations	3		
MGMT 508	Business and Society	3		
MGMT 520	Operations Management	3		
MGMT 522	Managerial Marketing	3		
MGMT 526	Financial Decision Making	3		
MGMT 633	Vendor and Contract Management	3		
Technology Group: 9 credit hour minimum - Select from:				
MGMT 551-552	Problems	1-3		
MGMT 553	Internal Auditing	3		
MGMT 594	Special Topics in Management	3		
MGMT 599	Master's Thesis	1-6		

MGMT 630	Management of Information Systems	3
MGMT 632	Web Application Development	3
MGMT 634	Information Systems Analysis and Design	3
MGMT 635	Decision Support and Business Intelligence Systems	3
MGMT 639	Advanced Topics in Management Information Systems	3
MGMT 641	Forensic Accounting	3
MGMT 642	Fraud Examination	3
MGMT 646	Digital Forensics	3
MGMT 647	System and Network Administration	3
MGMT 648	Advanced Information System Security	3
MGMT 649	Information Assurance Project	3
CS 544	Introduction to Cybersecurity*	3
CS 565	Topics in Database Management*	3
CS 581	Fundamentals of Software Testing*	3
ECE 595	Special Topics*	1-4

^{*} And other graduate-level CS and ECE courses with advisor approval.

Appendix B Updated MS-ISA Program Description

Master of Science in Information Systems and Assurance

Introduction

The Master of Science (M.S.) in Information Systems and Assurance degree is targeted to students holding a B.B.A. or similar degree with an accounting specialization, a B.B.A. or similar degree with a specialization in information systems or technology, or a B.S. in computer science or computer-related engineering. The degree prepares students for advanced positions in information system management, information system development, and information assurance.

Admission Requirements

- Completed bachelor's degree-with at least 30 credit hours of courses in management, computer science, or computer-related engineering.
- At least 30 credit hours of undergraduate or graduate courses in management, accounting, information systems, computer science, computer-related engineering, or a combination thereof.
- Proficiency in English-language professional communications demonstrated by undergraduate
 courses, professional experience, or both. Students who lack proficiency may be admitted
 provisionally but must complete one or two undergraduate professional communication courses
 selected by the faculty advisor or admission committee in the first two semesters with grades of
 B or better.
- A grade point average of 3.0 or higher for the last 60 credit hours of college coursework, including any post-baccalaureate work.
- A score equal to or greater than 500 on the Graduate Management Admission Test (GMAT), or a
 Graduate Record Examination (GRE) score that is equal to or greater than 500 on the
 quantitative section and a score equal to or greater than 500 on the verbal section.

Advisement and Plan of Study

Advisement prior to first-semester enrollment and a formal plan of study is mandatory. Individual students are advised to enroll in specific classes that match their intended career path and complement

their bachelor's degree and work experience. Plan of study approvals are granted by a designated faculty advisor or committee. A faculty advisor or committee will work cooperatively with each admission candidate to develop and approve a plan that includes specific courses that match the student's intended career path, complements his or her bachelor's degree and work experience, and ensures that each program graduate reflects positively on UNM, ASM, and the MS-ISA program. Modifications to the initial plan of study may be requested by the student at any time but must be approved by the faculty advisor or committee. Each approved plan is a student-specific set of courses that must be successfully completed for that student to graduate.

Program Requirements

Students must complete a minimum of 32 credit hours of courses within the following groups:

•	credit hours - Courses may be waived based on similar aduate courses or experience.	Credit Hours
MGMT 533	Professional Communications	2
MGMT 631	Information System Project Management	3
MGMT 636	Information Systems Security	3
MGMT 637	Database Management Systems	3
_	up: 12 credit hours minimum - Up to 12 credit hours may be waived based on uate/graduate courses or experience. Select from:	
MGMT 501	Data Driven Decision Making	3
MGMT 502	Financial Accounting and Analysis	3
MGMT 503	Managerial-Cost Accounting	3
MGMT 506	Managing People in Organizations	3
MGMT 508	Business and Society	3
MGMT 520	Operations Management	3
MGMT 522	Managerial Marketing	3
MGMT 526	Financial Decision Making	3

MGMT 633	Vendor and Contract Management	3
Technology Group	p: 9 11 credit hour minimum - Select from:	
MGMT 551-552	Problems	1-3
MGMT 553	Internal Auditing	3
MGMT 594	Special Topics in Management	3
MGMT 599	Master's Thesis	1-6
MGMT 630	Management of Information Systems	3
MGMT 632	Web Application Development	3
MGMT 634	Information Systems Analysis and Design	3
MGMT 635	Decision Support and Business Intelligence Systems	3
MGMT 639	Advanced Topics in Management Information Systems	3
MGMT 641	Forensic Accounting	3
MGMT 642	Fraud Examination	3
MGMT 644	Data Warehousing	3
MGMT 645	Data & Text Mining	3
MGMT 647	System and Network Administration	3
MGMT 648	Advanced Information System Security	3
MGMT 649	Information Assurance Project	3
MGMT 697	Internship	3
CS 521	Data Mining Techniques	3
CS 544	Introduction to Cybersecurity*	3
CS 565	Topics in Database Management*	3

CS 567	Principles and Applications of Big Data	3
CS 581	Fundamentals of Software Testing*	3
CS 583	Object-Oriented Testing	3
ECE 525	Hardware-Oriented Security and Trust	3
ECE 595	Special Topics*	1-4

^{*} And other graduate-level CS and ECE courses with advisor approval.

Appendix C MGMT 644 Syllabus

Appendix D MGMT 645 Syllabus

Form C Attachment MS-ISA Updates for Fall 2016 Budget and Faculty Load Implications

Summary of Proposed Changes

In summary form, the proposed changes to the MS-ISA are:

- 1. Include professional communications in the program via undergraduate course and/or professional skill prerequisites rather than formal graduate coursework.
- 2. Expand the course selection within the management group to include MGMT 501 (Data Driven Decision Making)
- 3. Adjust the program's catalog description to make it clear that conformity with an approved plan of study is a graduation requirement
- 4. Adjust the courses that comprise the Technology Group to reflect an expanded range of options.
- 5. Adjust program admission requirements to allow both undergraduate and graduate coursework to count toward the 30 credit hour requirement for management, computer science, or computer engineering courses. Also, modify the wording of the requirement to make it clear that accounting and information systems courses are included.
- 6. Assign permanent course numbers to Data Warehousing and Data & Text Mining (currently offered as MGMT 639 sections) and include both of the new courses in the Technology Group.

Budgetary and Faculty Load Implications

1. MGMT 533 is on the books but has never been offered. Thus removing it from the MS-ISA has no net impact on ASM nor faculty load. A slight increase in enrollment for courses such as ENGL 219, CJ 130, CJ 332, and CJ 333 may be created. However, the majority of students admitted thus far to the MS-ISA have been determined to have adequate professional communication skills. At most, a handful of international students per year might be directed to take one or more of the undergraduate courses listed above. That number of students isn't enough to warrant additional sections and the budget and faculty load implications they would imply. In sum, there are no measurable budget nor faculty load implications from dropping MGMT 533 as an MS-ISA required course.

- 2. Multiple sections of MGMT 501 are offered each academic year to serve MBA students. It is rare for all sections to be fully enrolled. In addition, most MS-ISA applicants to date have completed at least one undergraduate statistics course and would thus not have had MGMT 501 included in their plans of study. The few MS-ISA students that will take MGMT 501 will take one less course from the remaining management and technical group courses. Thus, the net impact on student demand for ASM courses is zero. In sum, there are no measurable budget nor faculty load implications from adding MGMT 501 to the MS-ISA as a management group course.
- 3. Proposed change #3 doesn't add nor delete courses to the MS-ISA so it has no budget nor faculty load implications.
- 4. The proposed changes to technology group courses effectively increase the number of available options. Most of that increase is in courses offered by ECE and CS. To date, only a handful of MS-ISA students have included CS and ECE courses in their plans of study and then usually only a single course. Unless overall enrollment increases, offering more options for technology courses will simply spread existing students over a larger number of courses and sections. The impact on any one course or section will be minimal so it's highly unlikely that additional sections beyond those already offered will need to be scheduled. In sum, proposed changes to allowable technology croup courses have no likely budget nor faculty load implications.
- 5. Proposed change #5 doesn't add nor delete courses from the program. Also, it codifies what has been existing practice via admission requirement waivers allowing previously completed graduate management, CS, or ECE courses to satisfy admission requirements. Thus, no additional admissions nor enrollments are expected to arise from the change. Thus, there are no budget nor faculty load implications.
- 6. The "new" courses created by proposed change #6 aren't really new. Both have been offered as MGMT 639 (Special MIS Topics) sections. MGMT 644 has been offered as MGMT 639 in Spring 2014 and 2015 and is scheduled for Spring 2016. MGMT 644 will be offered for the first time in Spring 2017 and presumably every spring thereafter. MGMT 645 was offered as MGMT 639 in Spring 2015 and is scheduled for Spring 2016. It will be offered as MGMT 645 for the first time in Spring 2017 and presumably every spring thereafter. Professors French and Jurkat have taught all sections offered thus far and are scheduled to teach the newly-numbered sections for the foreseeable future. Since the corresponding MGMT 639 sections will no longer be scheduled once the new courses are offered, the net impact on sections offered is zero. Thus, there are no budget nor faculty load implications from creating MGMT 644 and 645.

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Associated Forms exist?* No ▼ Initiator's Title* Head of Dance: Theatre and Dance
Faculty Contact* Donna Jewell Administrative Contact* Sarah Lentz
Department* Theatre and Dance Admin Email* slentz@unm.edu
Branch Admin Phone* 277 2737
Proposed effective term
Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Graduate Degree Program ▼
Name of New or Existing Program* MFA in Dance
Select Category * Degree Type MFA in Dance Select Action Revision ▼ Degree Type MFA in Dance
Select Action Revision V
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements See current catalog for format within the respective college (upload a doc/pdf file)
Form C Master of Fine Arts in Dance revision fall 2015.docx
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file)
Two reasons for this request. The MFA in Dance graduate student should take the department required core 500 course under a DANC number, not a THEA number. And the addition of the option to take 579 Flamenco Choreography instead of the 510 Creative Investigation serve the graduate student in the MFA in Dance if they are pursuing Flamenco research and practice. The 510 Creative Investigations I could be graduate towards Contemporary Dance graduate research and practice.
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
Justification for Form C Revision of MFA in Dance.docx
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.
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Form C Revision of MFA in Dance

Current Catalog listing

Master of Fine Arts in Dance

The Master of Fine Arts in Dance (M.F.A.) is a three-year terminal degree program that serves a select population of emerging artists pursuing a future in performance, choreography, and teaching, with focus areas in Choreography and/or Performance. The program promotes the growth and development of artistic achievement balanced with scholarship, accepting only students who show artistic excellence and who demonstrate exceptional potential for future progress. The M.F.A. dissertation in Dance consists of an evening concert of original choreography and an accompanying written dissertation.

Required Courses

	Graduate Core:
DANC	Introduction to Graduate Study
500	
-or-	Introduction to Graduate Studies
THEA 500	
THEA 503	Performance Theory
THEA 506	Critical Issues in the Performing Arts
	Dance Core:
DANC	Creative Investigations I
510	
DANC	Choreography II
511	
DANC	Creative Investigations II

515	
DANC	Dance Pedagogy
516	
DANC	Dance Technique for Graduate Student
549	
DANC	531, 562, 563, 564, 566 or 567 Dance History or Dance Criticism
DANC	Dissertation
699	
	Electives:
	Six credit hours graduate electives in the student's area of interest

Revision

Master of Fine Arts in Dance

The Master of Fine Arts in Dance (M.F.A.) is a three-year terminal degree program that serves a select population of emerging artists pursuing a future in performance, choreography, and teaching, with focus areas in Choreography and/or Performance. The program promotes the growth and development of artistic achievement balanced with scholarship, accepting only students who show artistic excellence and who demonstrate exceptional potential for future progress. The M.F.A. dissertation in Dance consists of an evening concert of original choreography and an accompanying written dissertation.

Required Courses

Graduate Core:

DANC	Introduction to Graduate Study
500	
THEA 503	Performance Theory
THEA 506	Critical Issues in the Performing Arts
	Dance Core:
DANC	Creative Investigations I – or – Flamenco Choreography
510 or	
579	
DANC	Choreography II
511	
DANC	Creative Investigations II
515	
DANC	Dance Pedagogy
516	
DANC	Dance Technique for Graduate Student
549	
DANC	531, 562, 563, 564, 566 or 567 Dance History or Dance Criticism
DANC	Dissertation
699	
	Electives:
	Six credit hours graduate electives in the student's area of interest

Justification for Form C Revision of MFA in Dance Fall 2015 Donna Jewell, Head of Dance, Department of Theatre and Dance UNM

Two changes are indicated in the Form C revision of the MFA in Dance.

The first change is in the first column of the degree requirements. The degree should require the DNCE 500 Introduction to Graduate Study and not require the THEA 500 Introduction to Graduate Studies. Although this class is the same course, meaning theatre graduate students take THEA 500 with dance graduate students in DNCE 500, the dance graduate student should be taking this course under the DNCE course number.

Second change is the option to take DNCE 579 Flamenco Choreography instead of DNCE 510 Creative Investigations I. This provides the opportunity for flamenco studies graduate students in the MFA in Dance to take a graduate level flamenco choreography class. DNCE 510 Creative Investigations I is designed for graduate level study of choreography in the Contemporary Dance genre. We are experiencing on-going admission of flamenco study students in the MFA in Dance and want to provide the best possible choreography curriculum to that type of student.

This has impact on long-range planning for the reasons indicated in the paragraph above, namely that we be prepared to provide flamenco choreography curriculum at the graduate level.

Impact on faculty is negligible. The DNCE 579 is co-offered with DNCE 479 and is an on-going course in the undergraduate curriculum, offered every fall semester.

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Faculty Contact* David Peabody Administrative Contact* Alec Reber	
Department* Biomedical Sciences Admin Email* areber@salud.unm.edu Branch Admin Phone* 505-272-1921	
Proposed effective term Semester Summer ▼ Year 2016 ▼	
Course Information	
Select Appropriate Program* Graduate Degree Program Name of New or Existing Program* PhD Biomedical Sciences- Infectious Disease & Immunology Concentration Select Category ★ Concentration ▼ Degree Type PHD Select Action New ▼	
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements See current catalog for format within the respective college (upload a doc/pdf file)	*
BSGP Infectious Disease Concentration - Catalog.pdf	
Does this change affect other departmental program/branch campuses? If yes, indicate below.	
Reason(s) for Request* (enter text below or upload a doc/pdf file) The BSGP Steering Committee has reviewed existing curricular offerings and determined that formalizing the current requirements into concentrations (Cancer Biology - C1671, Cardiovascular Physiology - C1673, Infectious Disease - C1683 and Neuroscience - C1672 to concentrations of the students. In addition to the other Form Cs noted above, the following Form Bs are being submitted: B1717 - mover regularly taught topics course to it's own number for use in the Neuroscience concentration. B1715 - creating a directed study course for use the Cancer Biology concentration. Please see the attachments for additional details	/ing
BSGP Infectious Disease Concentration - Reason.pdf	
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)	
BSGP Infectious Disease Concentration.pdf	
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.	
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)	
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)	
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Biomedical Sciences Graduate Program, Infectious Disease & Immunology Concentration

Proposed Effective Term

Summer 2016

Proposed Catalog Text

Infectious Disease & Immunology – 24 credit hours

The Concentration in Infectious Disease & Immunology conforms to the basic requirements of the BSGP and will lead to a Ph.D. degree. This concentration will provide an individualized program of upper level courses and scientific research in the laboratory of a faculty member within the Infectious Diseases and Immunity Signature Research Program. The goal in this Research Program is to develop and enhance collaborative programs among researchers, physicians and businesses in New Mexico to address the threat of infectious and immunologically-mediated inflammatory diseases in New Mexican populations and the world by characterizing epidemiologic issues, studying basic host-pathogen mechanisms, developing new vaccines, therapeutics, and diagnostics, and testing the preventive, therapeutic and diagnostic efficacy of these discoveries in clinical trials.

Program Requirements

1. Complete first year BSGP core curriculum:

Course No.	Course title	Credit hrs
BIOM 501	Fundamentals for Graduate Research	1
BIOM 506	Special Topics in Biomedical Research (rotations)	3
BIOM 507	Advanced Molecular Biology	4
BIOM 508	Advanced Cellular Biology	4
BIOM 525	Cell and Molecular Basis of Disease Journal Club (2	4
	semesters, year 1)	
BIOM 530	Cell and Molecular Basis of Disease Seminar	1
BIOM 555	Problem-Based Research in Bioethics (may be taken in 2 nd	1
	year)	

2. During the second semester of the first year BSGP students are required to take 9 credit hours of selectives. This hour requirement remains unchanged for students pursuing the concentration. To earn a Concentration in Infectious Disease & Immunology graduate students are required to take BIOM 514 - Immunobiology. The remaining 6 credit hours will be determined based on an individualized training plan for each student from the following options.

Course No.	Course title	Credit hrs
	REQUIRED	
BIOM 514	Immunobiology	3

Biomedical Sciences Graduate Program, Infectious Disease & Immunology Concentration

	Select 2 of the following	
BIOM 509	Principles of Neurobiology	3
BIOM 510	Physiology	3
BIOM 515	Cancer Biology	3
BIOM 522	Experimental Methods and Design	3

3. Following successful completion of the Qualifying Exam and remaining in Good Academic Standing (as defined by the BSGP), graduate training will mainly focus on laboratory research supervised by the student's mentor, and supplemented with the following advanced courses.

Course No.	Course title	Credit hrs
	REQUIRED	
BIOM 620	Seminar: Molecular Genetics and Microbiology (1 hr/semester)	6
BIOM 625	Advanced Topics in Immunology and Microbiology (1	6
	hr/semester)	
BIOM 616	Molecular Virology	3

Biomedical Sciences Graduate Program, Infectious Disease & Immunology Concentration

Reason for Request

- The primary objective of the Infectious Disease & Immunology Concentration is to enhance the ability and competitiveness of BSGP PhD students to pursue careers in Infectious Disease & Immunology.
- Students graduate with a transcriptable "Infectious Disease & Immunology Concentration" depicting the specific training achieved under the interdisciplinary program in Biomedical Sciences.
- The Infectious Disease & Immunology Concentration helps prospective students identify key areas of research at UNM.

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Fields marked with * are required				
Name of Initiator: Ziarat Hossain Email: zhossain@unm.edu Phone Number: 505 277-4162 Date: 10-12-2015 Associated Forms exist?* No Initiator's Title* Professor: Individual Family Comm Educ I Faculty Contact* Zia Hossain Administrative Contact* Cynthia Salas Department* Individual, Family and Community Ed Admin Email* casalas@unm.edu Branch Admin Phone* 277-4318				
Proposed effective term Semester Fall ▼ Year 2016 ▼				
Course Information				
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BS Human Development & Family Relations Select Category * Major ▼ Degree Type B.S. Select Action Deletion ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)				
Does this change affect other departmental program/branch campuses? If yes, indicate below.				
Reason(s) for Request* (enter text below or upload a doc/pdf file) As part of a significant revision of the Family Studies (FS) program, we will no longer offer a major in Human Development and Family Relations (HDFR). Courses used in HDFR major will be accommodated in a revised major named Family and Child Studies (FCS) with a concentration in Human Development and Family Relations. It may be worthwhile to mention that the proposed FCS major is a revision of an existing major (Family Studies) and a separate FORM C has been submitted for FCS major.				
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)				
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.				
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)				
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)				
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Curriculum Workflow



Link to Curricula Forms Process Manual				
DEGREE/PROGRAM CHANGE FORM C Form Number: C1698				
Fields marked with * are required				
Name of Initiator: Ziarat Hossain				
Proposed effective term Semester Fall ▼ Year 2016 ▼				
Course Information				
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* Family Studies Minor Select Category * Minor ▼ Degree Type UG Select Action Revision ▼				
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)				
FCS - Minor in FCS.doc				
Does this change affect other departmental program/branch campuses? If yes, indicate below.				
Reason(s) for Request* (enter text below or upload a doc/pdf file) [REGISTRAR'S NOTE: THIS FORM REQUESTS NAME CHANGE AND REQUIREMENTS CHANGES TO THE EXISTING FAMILY STUDIES MINOR.] This is part of a significant revision of the Family Studies (FS) program that includes major curriculum changes to the existing BS degree. The revised BS degree will be in Child and Family Studies (FCS). In line with this change, we need to change the title of minor from Family Studies to Family and Child Studies as well as revise the curriculum for the minor in FCS. The revision will result in minimal curricular changes. FCS minors and majors for B.S. (for College of Education students) and B.A. (for College of A&S students) degrees would be able to take the same 12 credits of super core courses (FCS 105, 305, 481, 484). This change will allow FCS minors more flexibility in selecting elective courses. Furthermore, the total credits for FCS minors will be reduced from 21 to 18 credits. This change is in line with the fact that most minors in other departments are within 18 hours. See attached course curriculum for both the existing and proposed courses for FCS minors.				
FCS - Minor in FCS.doc				
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)				
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.				
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)				
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)				
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Family and Child Studies Program

Minor:

Family and Child Studies (PROPOSED)

Family and Child Studies Courses

	Family and Child Studies Courses		
FCS Core Curriculus	m		12 Credits
FCS 105	Introduction to Family and Child Studies	3	
FCS 305	Research and Evaluation in Family and Child Studies	3	
FCS 481	Families, Children and Public Policies	3	
FCS 484	The Sociocultural Context of Children and Families	3	
Additional Courses _			6 Credits
FCS 202	Introduction to Language, Literacy, & Reading	3	
FCS 203	Infant Growth and Development	3	
FCS 213	Marriage and Family Relationships	3	
FCS 217	Curriculum Development & Implementation Age 3 to Gr. 3	3	
FCS 220	Assessment of Children & Evaluation of Programs	3	
FCS 304	Growth and Development in Middle Childhood	3	
FCS 310	Friends and Intimate Relationships	3	
FCS 312	Parent-Child Interactions	3	
FCS 313	Family Theories and Contemporary Lifestyles	3	
FCS 315	Adolescent Development in the Family	3	
FCS 316	Early Childhood Pedagogy & Curriculum	3	
FCS 321	Young Children with Diverse Abilities	3	
FCS 341	Ecological Aspects of Housing	3	
FCS 343	Family Management Theories	3	
FCS 344	Consumer Decisions	3	
FCS 395	Field Experience	3	
FCS 401	Research in Child Growth, Development and Learning	3	
FCS 403	Growth and Development of the Preschool Child	3	
FCS 405	Advanced Caregiving for Infants and Toddlers	3	
FCS 411	Marriage and Family Life Education	3	
FCS 412	Fathering	3	
FCS 416	Adult Development in the Family	3	
FCS 443	Application of Family Management Theories	3	
	11	-	

Total FCS Required Hours _______ 18 Credits



FAMILY STUDIES

Minor: Family Studies (EXISTING)

Family Studies Courses

Family Studies	Core Curriculum		12 Credits
FS 213	Marriage and Family Relationships	3	
FS 312	Parent-Child Interactions	3	
FS 343	Family Management Theories	3	
FS 484	Ethnic Minority Families	3	
Human Develop	oment and Family Relations		_ 3 Credits
FS 202	Infant Growth and Development	3	
FS 207L	Infant Lab	1	
FS 310	Friends and Intimate Relationships	3	
FS 313	Family Theories and Contemporary Lifestyles	3	
FS 315	Adolescent Development in the Family	3	
FS 403	Growth and Development of the Preschool Child	3	
FS 407L	Preschool Child Lab	1	
FS 411	Marriage and Family Life Education	3	
FS 412	Fathering	3	
FS 415	Aging and the Family	3	
FS 416	Adult Development in the Family	3	
Family Recours	e Management		_ 6 Credits
FS 341	Ecological Aspects of Housing	3	
FS 344	Consumer Decisions	3	
FS 443	Application of Family Management Theories	3	
FS 444	Family Finance	3	
Total Required	Hours		21 Credite

Updated on August 2008

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DEGREE/PROGRAM CHANGE FORM C Form Number: C1699
Fields marked with * are required
Name of Initiator: Ziarat Hossain
Proposed effective term Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BS Family and Child Studies - Human Development & Family Relations Concentration Select Category * Concentration ▼ Degree Type B.S. Select Action New ▼
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)
Curriculum.docx 4 Year Degree Plan FCS-BS HDFR Concentration.docx
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) The Department of Individual, Family and Community Education proposes a significant revision of its existing Family Studies Program and deletion of the Early Childhood and Multicultural Education program. This step will merge FS and ECME programs and the merger will result in a revised program named Family and Child Studies. In fact, the revision of the FS B.S. degree to the FCS B.S. degree will result in three concentrations as follows: a) Human Development and Family Relations (HDFR, 120 credits) b) Early Childhood Education and Development (ECED, 120 credits) c) Early Childhood Multicultural Education Licensure (ECMEL, 121 credits), Pre-K to Grade 3 The establishment of the FC Program will also involve eliminating another degree program (Human Development and Family Relations, HDFR) that currently exists under the FS Program. Under FCS, HDFR will become one of the three proposed concentrations. The current Form C requests the establishment of Human Development and Family Relations (HDFR) concentration. Two other Form C will be submitted for Early Childhood Education and Development (ECED), and Early Childhood Multicultural Education Licensure - ECMEL, Pre-K to Grade 3 concentrations. The revision effectively revises and more efficiently organizes existing programs of study in three separate Bachelor degree pathways (ECME, FS, & HDFR This revision allows us to offer discipline specific concentrations and guide FCS students toward either non-licensure or licensure track. With this revision, the University of New Mexico will offer a state of the art, high-quality, and rigorous undergraduate degree program for individuals seeking license for Pre-K to Grade 3 that includes deep knowledge in early childhood education, child development, and family well-being. The faculty load and budgetary impact are minimal as we are using the existing courses to design the HDFR concentration. For details, see Executive Summary of the merger.
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
FCS Undergraduate 10.15.15 Executive Summary.docx
☐ Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents. Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)

Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)

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Major: Family and Child Studies (B.S.)

Curriculum for HDFR Concentration (49 credits) – PROPOSED FCS Core (12 credits)

ECC 10E	Introduction of Family and Child Studios	3
	Introduction of Family and Child Studies	
	Research and Evaluation in Family and Child Studies	3
	Families, Children and Public Policies	3
FCS 484	The Sociocultural Context of Children and Families	3
HDFR Coi	ncentration Core (13 credits)	
FCS 213	Marriage and Family Relationships	3
FCS 312	Parent-Child Interactions	3
FCS 395	Field Experience	3
	Growth and Development of the Preschool Child	3
	L Preschool Child Lab	1
Family Ro	elations (9 credits)	
FCS 310	Friends and Intimate Relationships	3
FCS 313	Family Theories	3
FCS 411	Marriage and Family Life Education	3
	Fathering	3
Human D	evelopment (9 credits)	
FCS 203	Infant Growth and Development	3
FCS 304	Growth and Development in Middle Childhood	3
	Adolescent Development in the Family	3
	Adult Development in the Family	3
Family Ro	esource Management (6 credits)	
FCS 341	Ecological Aspects of Housing	3
FCS 343	Family Management Theories	3
	Consumer Decisions	3
	Application of Family Management Theories	3
	rr	_

Students pursuing HDFR concentration must take FCS 403 and FCS 407L concurrently. Also, 67 FCS credits are required to major in FCS (HDFR concentration) without a minor. Upon program approval, students may count up to 6 hours of FCS 391 towards program requirements.

General Education Requirements (40 credits) for HDFR Concentration - PROPOSED

AREA 1: Writing and Speaking - 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130, PHIL 156, UHON 201

AREA 2: Mathematics - 3 credit hours

STAT 145

AREA 3: Physical and Natural Sciences - 7 credit hours

BIO 110/112L OR BIO 123/124L AND choose 1 additional course from the following:

ANTH 120: Arch. Method & Theory CHEM 101: Chemistry in Our Community PHYC 102: Introduction to Physics CHEM 111L: Elem of General Chemistry (4cr) ANTH 122L: Req. Lab for ANTH 120 (1cr) PHYC 102L: Opt. Lab for PHYC 102 Pre-Spring 2013 ANTH 121L: Arch. M&T(4cr) CHEM 121: General Chemistry I PHYC 105: Physics and Society ANTH 150: Evol & Human Emergence CHEM 123L: Req. Lab for Chem 121 (1cr) PHYC 151: General Physics ANTH 151L: Opt. Lab for ANTH 150 (1cr) CHEM 122: General Chemistry II PHYC 151L: Opt. Lab for PHYC 151 (1cr) ANTH 160: Human Life Course CHEM 124L: Req. Lab for Chem 122 (1cr) PHYC 152: General Physics ANTH 161L: Opt. Lab for ANTH 160 (1cr) CHEM 131L: (Honors) Gen. Chemistry I (4cr) PHYC 152L: Opt Lab for PHYC 152 (1cr) ASTR 101: Intro to Astronomy CHEM 132L: (Honors) Gen. Chemistry II (4cr) PHYC 160: General Physics ASTR 101L: Opt. Lab for ASTR 101 (1cr) EPS 101: Intro to Geology PHYC 160L: Opt. Lab for PHYC 160 (1cr) BIOL 110: Biology for Non-Majors EPS 105L: Opt. Lab for EPS 101 (1cr) PHYC 161: General Physics BIOL 112: Opt. Lab for BIOL 110 (1cr) EPS 201L: Earth History (4cr) PHYC 161L: Opt. Lab for PHYC 161 (1cr) ENVS 101: The Blue Planet *NTSC 261L: Physical Science (4cr) ENVS 102L: Opt. Lab for ENVS 101 *NTSC 262L: Life Science (4cr)

AREA 4: Social and Behavioral Sciences – 6 credit hours. Choose 2 courses from the following:

AFTS / CCS / NATV / SUST / WMST 109: ECON 105: Intro to Macroeconomics POLS 110: The Political World Intro to Comparative and Global Ethnic Societies ECON 106: Intro to Microeconomics POLS 200: American Politics AMST 182: Intro to Env. Sci. & Technology **CRP 181**: Intro to Environmental Problems POLS 220: Comparative Politics AMST 185: Race, Class & Ethnicity ENGF 200: Technology in Society POLS 240: International Politics ANTH 101: Intro to Anthropology GEOG 102: Human Geography SOC 101: Intro to Sociology ANTH 130: Cultures of the World LING 101: Intro to Linguistics UHON 204: Individual & Collective PSY 105: General Psychology

GEOG 101: Physical Geography

GEOG 105L: Opt. Lab for GEOG 101 (1cr)

*NTSC 263L: Environmental Science (4cr)

UHON 203: Science in the 21st Century

AREA 5: Humanities - 6 credit hours: Choose 2 courses from the following

AFST 104: Intro to Africana Studies ENGL 150: Study of Literature NATV 150: Intro to Native American Studies ENGL 292/293: World Literatures PHIL 101: Intro to Philosophical Problems AMST 186: Intro to Southwest Studies CCS 201: Intro to Chicana & Chicano Studies GEOG 140: World Regional Geography PHIL 201: Greek Thought CLST 107: Greek Mythology HIST 101/L: Western Civilization (to 1648) PHIL 202: From Descartes to Kant CLST 204: Greek Civilization HIST 102/L: Western Civilization (from 1648) **RELG 107**: Living World Religions CLST 205: Roman Civilization HIST 161/L: History of the US to 1877 **RELG 263**: Eastern Religions CLCS 223/224: Literary Questions HIST 162: History of the US since 1877 RELG 264: Western Religions COMP 222: Fairy and Folk Tales HIST 181: History of Early Latin America UHON - Honors Legacy Sem, 100-200 level HIST 182: Modern Latin American History **UHON 205**: Humanities Society & Culture COMP 224: Literary Questions MLNG 101: Languages

AREA 6: Foreign Language – 3 credit hours

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts – 3 credit hours required. Choose 1 course from the following:

ARCH 121: Intro to Architecture

DANC 105: Dance Appreciation

THEA 105: Intro to Theatre Appreciation

Pre-Fall 2010 Arch 101: Intro to Architecture

FA 284: Experiencing the Arts

Pre-Fall 2010 THEA 122: Theatre

Appreciation

ARTH 101: Intro to Art MA 210: Intro to Film and Study UHON 207: Fine Art as Global

Perspective

ARTH 201: History of Art 1 MUS 139: Music Appreciation
ARTH 202: History of Art 2 MUS 142: Rock Music Appreciation

Any 3 credit hour studio or performance course offered by the Department of Art and Art History, Music, Theatre and Dance, Media Arts or IFDM.

Additional Requirement - 3 credits hours

NUTR 120 OR 224

In addition, the student must complete unrestricted electives for a minimum total of 120 credit hours. Consult the program faculty for specific courses. The student must complete 40 hours above 300. Grades of C or better are required in all General Education and Family and Child Studies courses used to meet the HDFR requirement.

Major: Family and Child Studies (B.S.)

Curriculum for HDFR Concentration (49 credits) – PROPOSED FCS Core (12 credits)

ECC 10E	Introduction of Family and Child Studios	3
	Introduction of Family and Child Studies	
	Research and Evaluation in Family and Child Studies	3
	Families, Children and Public Policies	3
FCS 484	The Sociocultural Context of Children and Families	3
HDFR Coi	ncentration Core (13 credits)	
FCS 213	Marriage and Family Relationships	3
FCS 312	Parent-Child Interactions	3
FCS 395	Field Experience	3
	Growth and Development of the Preschool Child	3
	L Preschool Child Lab	1
Family Ro	elations (9 credits)	
FCS 310	Friends and Intimate Relationships	3
FCS 313	Family Theories	3
FCS 411	Marriage and Family Life Education	3
	Fathering	3
Human D	evelopment (9 credits)	
FCS 203	Infant Growth and Development	3
FCS 304	Growth and Development in Middle Childhood	3
	Adolescent Development in the Family	3
	Adult Development in the Family	3
Family Ro	esource Management (6 credits)	
FCS 341	Ecological Aspects of Housing	3
FCS 343	Family Management Theories	3
	Consumer Decisions	3
	Application of Family Management Theories	3
	rr	_

Students pursuing HDFR concentration must take FCS 403 and FCS 407L concurrently. Also, 67 FCS credits are required to major in FCS (HDFR concentration) without a minor. Upon program approval, students may count up to 6 hours of FCS 391 towards program requirements.

General Education Requirements (40 credits) for HDFR Concentration - PROPOSED

AREA 1: Writing and Speaking - 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

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AREA 2: Mathematics - 3 credit hours

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AREA 3: Physical and Natural Sciences - 7 credit hours

BIO 110/112L OR BIO 123/124L AND choose 1 additional course from the following:

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AFTS / CCS / NATV / SUST / WMST 109: ECON 105: Intro to Macroeconomics POLS 110: The Political World Intro to Comparative and Global Ethnic Societies ECON 106: Intro to Microeconomics POLS 200: American Politics AMST 182: Intro to Env. Sci. & Technology **CRP 181**: Intro to Environmental Problems POLS 220: Comparative Politics AMST 185: Race, Class & Ethnicity ENGF 200: Technology in Society POLS 240: International Politics ANTH 101: Intro to Anthropology GEOG 102: Human Geography SOC 101: Intro to Sociology ANTH 130: Cultures of the World LING 101: Intro to Linguistics UHON 204: Individual & Collective PSY 105: General Psychology

GEOG 101: Physical Geography

GEOG 105L: Opt. Lab for GEOG 101 (1cr)

*NTSC 263L: Environmental Science (4cr)

UHON 203: Science in the 21st Century

AREA 5: Humanities - 6 credit hours: Choose 2 courses from the following

AFST 104: Intro to Africana Studies ENGL 150: Study of Literature NATV 150: Intro to Native American Studies ENGL 292/293: World Literatures PHIL 101: Intro to Philosophical Problems AMST 186: Intro to Southwest Studies CCS 201: Intro to Chicana & Chicano Studies GEOG 140: World Regional Geography PHIL 201: Greek Thought CLST 107: Greek Mythology HIST 101/L: Western Civilization (to 1648) PHIL 202: From Descartes to Kant CLST 204: Greek Civilization HIST 102/L: Western Civilization (from 1648) **RELG 107**: Living World Religions CLST 205: Roman Civilization HIST 161/L: History of the US to 1877 **RELG 263**: Eastern Religions CLCS 223/224: Literary Questions HIST 162: History of the US since 1877 RELG 264: Western Religions COMP 222: Fairy and Folk Tales HIST 181: History of Early Latin America UHON - Honors Legacy Sem, 100-200 level HIST 182: Modern Latin American History **UHON 205**: Humanities Society & Culture COMP 224: Literary Questions MLNG 101: Languages

AREA 6: Foreign Language – 3 credit hours

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

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DANC 105: Dance Appreciation

THEA 105: Intro to Theatre Appreciation

Pre-Fall 2010 Arch 101: Intro to Architecture

FA 284: Experiencing the Arts

Pre-Fall 2010 THEA 122: Theatre

Appreciation

ARTH 101: Intro to Art MA 210: Intro to Film and Study UHON 207: Fine Art as Global

Perspective

ARTH 201: History of Art 1 MUS 139: Music Appreciation
ARTH 202: History of Art 2 MUS 142: Rock Music Appreciation

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Additional Requirement - 3 credits hours

NUTR 120 OR 224

In addition, the student must complete unrestricted electives for a minimum total of 120 credit hours. Consult the program faculty for specific courses. The student must complete 40 hours above 300. Grades of C or better are required in all General Education and Family and Child Studies courses used to meet the HDFR requirement.

EXECUTIVE SUMMARY

Revision of the Family Studies (FS) and the Early Childhood and Multicultural Education (ECME) Programs

&

Proposed Family & Child Studies (FCS) Program

Merger & Changes in the Undergraduate FS and ECME,

Department of Individual, Family & Community Education College of Education University of New Mexico

Summary of the Revision and Merger

Existing Programs	Proposed (Effective Fall 2016)	
B. S. in FS (128 credits)	Revise to B. S. in FCS with 3 concentrations: - Human Development and Family Relations (120 credits) - Early Childhood Education & Development (120 credits) - Early Childhood Multicultural Education Licensure, Pre-K to Grade 3 (121 credits)	
B. S. in Human Development and Family Relation (HDFR)	Delete	
B. S. in ECME	Delete	
B. A. in FS (A&S students)	B. A. in FCS (A&S students)	
Minor in FS (21 credits)	Revise to minor in FCS (18 credits)	
Minor in HDFR	Delete	

Vision of the Family & Child Studies Program

Enhancing the lives of children and families through inter-related theory, research, and practice that address the diverse and complex nature of their futures.

Mission of the Family & Child Studies Program

Our mission is to foster an interdisciplinary scholarly environment that enables early childhood professionals, family service providers, and researchers in the field of family and child study to

- cultivate and disseminate systematic information and grounded knowledge about the diverse nature of families in contemporary societies
- understand and critically respond to the dynamic complexities of human development across the lifespan
- foster leadership in addressing the multiple facets of early childhood development

Introduction

The Family & Child Studies Program (FCS) is targeted to begin Fall 2016 as the culmination of an intensive, 4-year review and revision of two existing programs in the Department of Individual, Family and Community Education (IFCE). These programs are:

Family Studies (FS); and

Early Childhood Multicultural Education (ECME)

The establishment of the FCS Program will also involve eliminating another degree program (Human Development and Family Relations – HDFR) that currently exists under the FS Program.

Family Studies currently offers Bachelor's, Master's and Doctoral degrees, and both the HDFR and ECME Programs offer the Bachelor of Science degree. The reimagination and consolidation of these degree programs are the basis for the comprehensive revision of the degree requirements for the proposed FCS degree offerings. More generally, the proposed FCS program is grounded in a firm commitment to (a) emphasize research productivity on the part of its faculty and both undergraduate and graduate students, (b) strengthen its academic offerings at all degree levels, and (c) provide excellent mentoring of its graduate and doctoral students aimed at developing leaders and quality researchers in the field.

As noted above, the proposed FCS program is the outcome of a comprehensive review of the Family Studies, Human Development and Family Relations, and Early Childhood Multicultural Education programs at the Bachelor level, and the Family Studies program at the Master and Doctoral levels. The proposed changes are therefore not aimed at creating any new degree programs but, rather, revisions of the existing Bachelor of Science, Bachelor of Arts, Master of Arts and Doctor of Philosophy degrees in Family Studies. In line with the proposed merger, a

Form C will be submitted to delete both the ECME and HDFR Bachelor of Science degrees. The revision of the FS – B.S. degree to the FCS – B.S. degree will result in three concentrations as follows:

- a) Human Development and Family Relations (HDFR 120 credits)
- **b)** Early Childhood Education and Development (ECED 120 credits)
- c) Early Childhood Multicultural Education Licensure (ECMEL 121 credits), Pre-K to Grade 3

The changes will result in a revised subject code (FCS) for all courses offered in the merged program and the FS and ECME subject code will expire for courses offered on main campus.

Reasons for Request

FS and ECME faculty have shared academic interests that focus on families, children, and communities. The complementarity of such interests and expertise will be significantly enhanced by the proposed merger. In addition, the merger will help us pool resources to effectively address both faculty and student involvement in academic processes and products. We envision that such a consolidation will improve the quality of our teaching, research, advisement, and other professional contributions and services. As a key corollary, students will be a part of a vibrant, innovative program and will experience a well-supported academic and learning environment.

As already indicated, the Form C to revise the existing Family Studies Bachelor of Science degree is part of a deliberative process to merge two existing programs, Early Childhood Multicultural Education and Family Studies, in the Department of Individual, Family, and Community Education in the College of Education. As part of this process, the existing ECME Bachelor of Science degree and the existing HDFR Bachelor of Science degrees will be deleted. Minors in the Family Studies and Human Development and Family Relations will also be deleted, resulting in a revised minor in Family and Child Studies (FCS). The current Form C will include three concentrations (Human Development and Family Relations – HDFR, Early Childhood Education and Development – ECED, and Early Childhood Multicultural Education Licensure - ECMEL, Pre-K to Grade 3) that effectively revise and more efficiently organize existing programs of study in three separate Bachelor degree pathways (ECME, FS, & HDFR). It may be important to note that if all gets approved, the University of New Mexico will offer a state of the art, high-quality, and rigorous undergraduate degree program for individuals seeking license for Pre-K to Grade 3 that includes deep knowledge in early childhood education, child development, and family well-being.

Justification of the Merged FCS Program

The Early Childhood Multicultural Education Program and the Family Studies Program faculty believe that the proposed merger is an appropriate evolution of programs that have been closely linked since the creation of the ECME program at UNM following the adoption of the Birth to Grade Three Teaching License by the then New Mexico State Board of Education in 1993. Three UNM faculty members from Family Studies were part of the original group that developed the licensure competencies and developed the proposal for the new ECME degree program at UNM. That program began admitting students in 1996. From 1996 to 1999 Family Studies faculty taught courses in ECME; since 1999, at least three Family Studies courses have

been taught each academic year by ECME faculty. And in the past three years, ECME faculty members have taught at least five Family Studies courses each academic year.

The original plan for ECME included five-tenure/tenure track faculty. However, this plan was never realized. From 1998 to 2000 the ECME program had 4.5-tenure/tenure track faculty. From 2000 to 2007 the ECME program operated with only 2.5 faculty. Similarly, the Family Studies program experienced significant attrition of its faculty from 1998 to 2015, decreasing from nine tenure/tenure track faculty members to only two. Given this history, a primary reason for the merger proposal is the need to create a future-oriented program with a critical mass of faculty able to sustain both quality and expansion to meet the needs of its students and to contribute meaningfully to the field of Family & Child Studies. Especially in light of the economic challenges affecting higher education, it seems clear that two programs in the College of Education, functioning separately and with only five full-time tenure-track faculty total (two FS and three ECME), would not be able to sustain quality and growth. In addition, the colleagues in Family Studies and ECME see such a merger as exactly the type of redesign and interdisciplinary initiative that the university is encouraging to respond effectively to the need for excellence in programs and creativity that reflects trends in a range of fields. More specifically, the faculty colleagues have agreed that merging the two programs would enable them to address more effectively the critical need for preparing professionals for positions of leadership in New Mexico in the context of programs and services for young children, their families, and the wider community.

Several important reasons factored into the re-design of our proposed bachelor of science degree program that includes a new early childhood teacher preparation pathway leading to state license.

First, July 2014 witnessed the state's adoption of two new early childhood licenses that replaced the original Birth to Grade 3 License. The "Birth to Pre K" and "Pre K to Grade Three" licenses. The state adopted a "non-licensure" Birth to PreK option for early childhood professionals who require a degree in early childhood but not a state license (e. g., Head Start personnel).

Second, the Early Childhood Teacher Preparation pathway in New Mexico includes a complete Associate of Arts degree program requiring 35 general education credits and 29 professional courses that are offered at almost every community college and branch campus in New Mexico. Unlike other teacher educator programs in New Mexico, Early Childhood Educator programs are under a statewide full articulation agreement that requires UNM to accept 11 of the 20 required professional courses for licensure taken at any of the other colleges in New Mexico.

Third, since 2002, the state has adopted a "universal curriculum" in early childhood which mandates that all courses for Associate and Bachelor level degrees have identical course titles, course descriptions, and course competencies, a comprehensive review of all Associate degree programs in the state revealed a wide range of quality in Associate of Arts Early Childhood programs across our state.

Fourth, we are concerned that our ability to be accountable for the quality of our program and the competency level of our graduates would be compromised by the fact that students could transfer in 86 of the 135 credits required courses from other institutions under state articulation and our own university rules.

Fifth, our governor signed into law Senate Bill 329 in April of this year. This act amends the school personnel act by reducing the general education requirements for teachers in New Mexico. In response to SB 329, our college established a Curriculum Consensus Committee to approve modifications to existing teacher preparation degree programs and to enhance our teacher preparation programs with additional course work aimed at cultural responsiveness, classroom assessment, bilingual education, and special education.

Sixth, in 2014 the provost's office encouraged undergraduate degree programs to develop 120 credit degree plans in order to align with national trends that also would address the increasing cost of higher education, and graduation rates.

To these ends, the FCS program is proposing three concentrations that address these six issues. The revised Bachelor of Science degree will offer two 120-credit concentrations and one 121-credit concentration that leads to PreK to Grade 3 New Mexico teaching license. Taken together, HDFR, ECED, and ECMEL Pre-K to Grade 3 concentrations will afford students with opportunities to develop deep understandings of children's growth, development and learning, family health and well-being as well as acquiring deep knowledge of the important ways in which family relationships, socialization, and community engagement factor into children's readiness for succeeding in school.

The proposed revision will offer a high-quality, state of the art program that responds to the Provost Office's of increasing graduation and reducing total number of credits in undergraduate programs offered at UNM. In the revised FCS program, the total number of credits required in two non-license concentrations of the bachelor level degree program will be 120 credits (i. e., a reduction from 135 to 120 credits) and the Pre-K to Grade 3 license pathway will be 121 credits. In addition, the proposed revision modifies and updates existing courses from both Family Studies and ECME and also includes new courses from within the College of Education in preparing teachers for the PreK to Grade 3 teaching license.

The FCS faculty strongly believe the re-designed early childhood teacher preparation concentration and the proposed non-licensure early childhood education and development concentration address shortcomings of the current undergraduate teacher preparation method in New Mexico that has heretofore focused primarily on transferability from community colleges and focus on state certification. The original Early Childhood licensure model in NM was designed prior to the adoption of the three-tier teacher licensing system in New Mexico, and the significant growth of diversity of early childhood positions in New Mexico that require higher education but not state certification. Our new design assures quality, cost efficiency, and comprehensiveness in early childhood teacher preparation, and in preparing professionals to work in a variety of positions that serve young children, families, and communities.

Impact of Long-Range Planning

The faculty who would comprise the proposed Family and Child Studies program have completed a comprehensive curriculum review and have created a 2-year schedule of undergraduate course offerings. (See **Appendix 1** for the Bachelor level schedule.) The proposed changes will allow the Department of Individual, Family, and Community Education (IFCE) to *reduce* its scheduling load because the merger of the two existing programs will include:

• Consolidating eight existing FS and ECME courses into four FCS courses.

- Scheduling fewer ITV courses (given that most of the courses in two FCS degree concentrations will only be offered on main campus).
- More efficient use of Teaching Assistants and Part Time Instructors.
- Relying on Special Education faculty to teach FCS 321. (Their expertise is specific to this course; see Appendix 2.)

In view of student graduation, curricular importance, admission to the program requirements, and increasing enrollment in our undergraduate courses, the FCS program will also need to make these changes:

- We will increase the frequency of offering one course (FCS 105: Introduction to Family and Child Studies). Although this is a core course and students are required to complete this course before being admitted into the program, it is currently taught only once a year and therefore delays student admission into the program and subsequent graduation.
- We will offer a new freshmen level course (FCS 102: Carpe Noctem: Sleep, Health & Family) once a year. A second course, 104: Children's Motivational Development, will also be developed. Although these are elective courses, they will serve as recruitment/feeder for FCS majors. In addition, based on faculty research interest and expertise, these offerings will help faculty strengthen the links between their research and undergraduate teaching. As important, students will be offered an intellectual forum for developing specific research interests in family and child studies early in their academic life.
- We will reduce the frequency of offering licensure courses to once a year instead of our
 offering all courses both fall and spring. Stringent advising through student advisors and
 program faculty utilizing detailed paper and web-based resources will be implemented
 to ensure students stay on track to graduate in a timely manner.

These changes will increase our ability to offer all courses in all concentrations and, therefore, in addition reducing total required credits to 120/121, we effectively minimize time-to-graduation for all undergraduate students in our program.

Faculty strength is obviously a key component of any program revision or merger. The current faculty composition of five tenure-track faculty and one lecturer with a search presently underway for a sixth tenure-track faculty member is sufficient to staff this merged program with one exception. The Family Studies Program currently holds a provisional accreditation from the National Council on Family Relations to offer the Certified Family Life Educator credential at the bachelor's level. The provision exists because no current faculty are themselves certified. Furthermore, the program currently has qualified part-time instructors but not full-time faculty to teach several of the courses related to consumer sciences. FLE certification is a preferred qualification in the current ongoing search, and adding faculty expertise in consumer sciences will be an important priority in the next few years.

Detailed Budget Analysis

In order to determine the budgetary implications and the broader resource needs of this revised undergraduate curriculum, we first articulated the current faculty expertise relative to the proposed curriculum (Table 1). Then we determined the preferred qualifications for instructors for each course (Table 1). We used these two analyses to construct a two-year staffing projection. From these analyses, we were able to determine what the staffing needs for this program will likely be (Table 2).

Table 1 demonstrates that the current faculty expertise maps onto the proposed curriculum with two exceptions (marked with red shade in the table). The first, as was described in the previous section, is the lack of expertise with consumer science courses. The second is the single course in marriage and families. The program has been addressing these needs through part-time instruction, which is an acceptable short and medium term solution. The FCS program will attend to the long-term issues within its future hiring requests.

Table 1 also articulates the preferred qualifications of instructors for each course in the revised program. Those courses designated for faculty-only instruction are core courses and/or require specific faculty expertise (e.g. those electives designed around faculty research expertise). Some courses have been designated as faculty or part-time instructor depending on faculty availability. Finally, a few courses have been designated as TA or PTI only. These courses are ones in which doctoral students will gain teaching experience. Thus 20 (54%) courses have been designated as faculty-only: 16 (43%) courses are designated as faculty or TA/PTI; and 1 course (3%) has been designated for TA/PTI only. Those proportions are similar to the actual proportions of sections taught by faculty, TAs and PTIs during the last two academic years. Table 2 displays an example two-year schedule. The frequency of courses is based on the sample plans of study appended and on historical frequency of offerings. It is an "example" in terms of the exact ratio of faculty to TA/PTI assignments. It also conforms to the preferred instructor qualifications. This example schedule demonstrates that in Academic Year 2016-2017, 5.55 regular faculty FTE are needed for this undergraduate curriculum and in AY2017-2018, 4.95 regular faculty FTE are needed. For comparison, in AY14-15, FS and ECME employed 3.7 regular faculty FTE in undergraduate instruction. Given the known course reassignments for program coordination, the new assistant professor, and for the lecturer's other duties, there remains 1.2 regular faculty FTE in AY16-17 and 1.8 regular faculty FTE in AY17-18 for graduate instruction. That is roughly eight graduate course sections per year, which should prove adequate for the graduate programs also being proposed for the FCS program. This example schedule also demonstrates that in AY16-17, the schedule will require 6.75 FTE of TA/PTI use and in AY17-18, 7.25 FTE of TA/PTI use. For comparison, in AY14-15, FS and ECME employed 8.0 FTE of TA/PTI use in undergraduate instruction.

The changes to the undergraduate programs should have no large impact on student enrollments by themselves. The clarity of the program identity, the articulated degree pathways, and the 120/121 hour options, might attract additional majors, but that growth should be incremental and thus manageable. Therefore, we foresee no student-driven changes in the resources required for the program.

In summary, the revised undergraduate program should permit more regular faculty FTE and less TA/PTI than the current undergraduate programs while still providing sufficient regular faculty FTE for graduate instruction. The mismatches between current faculty expertise and that required in the revised program are slight and can be addressed over time. There should also be no appreciable change in number of undergraduate majors.

Curricular Changes Required at the Bachelor Level

Section A: Existing Degree Programs:

Three Bachelor level degrees currently exist in Family Studies. They are:

- 1) The Bachelor of Science (B.S.) in Family Studies (FS) in the College of Education;
- 2) The Bachelor of Arts (B.A.) in Family Studies (FS) offered in the College of Arts and Sciences; and
- 3) The Bachelor of Science (B.S.) degree in Human Development and Family Relations (HDFR) in the College of Education

One Bachelor level degree currently exists in the ECME program. It offers the Bachelor of Science (B.S.) degree in Early Childhood Multicultural Education (ECME) in the College of Education.

Section B: The Proposed FCS Degree Program

Two bachelor level degrees will be offered under the FCS Program. They are:

- 1) The Bachelor of Science (B.S.) in Family and Child Studies (FCS) in the College of Education;
- 2) The Bachelor of Arts (BA) in Family and Child Studies (FCS) in the College of A&S.

The proposed B.S. degree in FCS program will be offered with three concentrations:

- 1) Early Childhood Education and Development (ECED)
- 2) Human Development and Family Relations (HDFR)
- 3) Early Childhood Multicultural Education Licensure (ECMEL), Pre-K to Grade 3

The proposed program of studies for ECED, HDFR, and ECMEL concentrations of the FCS Bachelor of Science degree are found in **Appendix 3**.

Section C: Forms

The proposed revisions will include the following curricular forms at the undergraduate level:

Form C – Deletion and/or revision

- 1. Deletion of the ECME Bachelor of Science degree.
- 2. Deletion of the HDFR Bachelor of Science degree.
- 3. Revision of the FS Bachelor of Science degree into the FCS Bachelor of Science Degree
- 4. Creation of the Human Development and Family Relations concentration of the Bachelor of Science in FCS.
- 5. Creation of the Early Childhood Education and Development concentration of the Bachelor of Science in FCS.
- 6. Creation of Early Childhood Multicultural Education Licensure, Pre-K to Grade 3 of the Bachelor of Science in FCS
- 7. Revision of the FS Minor to create FCS minor
- 8. Deletion of the HDFR Minor.
- 9. Revision of the FS Bachelor of Arts degree into the FCS Bachelor of Arts degree.
- 10. Authorization to count ARTE as fulfilling the UNM Core Fine Arts Requirements

Form B – New courses are developed as feeder for FCS and as the requirements for the ECMEL Pre-K to Grade 3 Licensure track in FCS

- FCS 102: Carpe Noctem: Sleep, Health & the Family (3)
- FCS 302: Emergent Literacy (3)
- FCS 316 Early Childhood Pedagogy & Curriculum (3)
- FCS 321 Young Children with Diverse Abilities (3)
- FCS 405: Advanced Caregiving for Infants and Toddlers (3)
- FCS 406: Teaching and Learning Math and Science (3)
- FCS 408: Teaching and Learning Social Studies, Fine Arts & Movement (3)
- FCS 440: Student Teaching Seminar (3)

Form A – FS/ECME Courses revised for proposed FCS program that involves New Prefix or New Number or Revised Course Title.

Existing Program	Existing Course Prefix,	Revised Course Prefix,	Action
	Number, & Title in FS	Number, & Title in FCS	
FS – Family Studies	FS 202: Infant Growth and	FCS 203: Infant Growth and	Prefix; Course Number
	Development	Development	
	FS 213: Marriage and Family	FCS 213: Marriage and Family	Prefix
	Relationships	Relationships	
	FS 281: Introduction of	FCS 105: Introduction to	Prefix; Course Number; New
	Family Studies	Family and Child Studies	Title
	FS 304: Growth &	FCS 304: Growth &	Prefix
	Development in Middle	Development in Middle	
	Childhood	Childhood	
	FS 310: Friends & Intimate	FCS 310: Friends & Intimate	Prefix
	Relationships	Relationships	
	FS 312: Parent- Child	FCS 312: Parent- Child	Prefix
	Interactions	Interactions	
	FS 313: Family Theories and	FCS 313: Family Theories	Prefix
	Contemporary Lifestyles		
	FS 315: Adolescent	FCS 315: Adolescent	Prefix
	Development in the Family	Development in the Family	
	FS 341: Ecological Aspects of	FCS 341: Ecological Aspects of	Prefix
	Housing	Housing	
	FS 343: Family Management	FCS 343: Family Management	Prefix; remove "permission of
	Theories	Theories	instructor"
	FS 344: Consumer Decisions	FCS 344: Consumer Decisions	Prefix
	FS 391: Problems	FCS 391: Problems	Prefix; Instructor Permission
	FS 395: Field Experience I	FCS 395: Field Experience	Prefix; Instructor Permission
	FS 403: Growth and	FCS 403: Growth and	Prefix
	Development of the Preschool	Development of the Preschool	
	Child	Child	
	FS 407L: Preschool Child	FCS 407L: Preschool Child Lab	Prefix
	Laboratory		

	FS 411: Marriage & Family	FCS 411: Marriage & Family	Prefix
	Life Education	Life Education	
	FS 412: Fathering	FCS 412: Fathering	Prefix
	FS 416: Adult Development in	FCS 416: Adult Development	Prefix
	the Family	in the Family	
	FS 443: Application of Family	FCS 443: Application of	Prefix
	Management Theories	Family Management Theories	
	FS 481: Families and Public	FCS 481: Public Policy and	Prefix; Junior Standing
	Policy	Advocacy in Family and Child	_
		Studies	
	FS 484: Ethnic Minority	FCS 484: The Sociocultural	Prefix; New Title; Junior
	Families	Context of Families	Standing
	FS 493: Topics	FCS 493: Topics	Prefix
	FS 497: Reading & Research	FCS 497: Reading & Research	Prefix; Instructor Permission
	in Honors I	in Honors I	
	FS 498: Reading & Research	FCS 498: Reading & Research	Prefix; Instructor Permission
	in Honors II	in Honors II	
	FS 499: Honors Thesis	FCS 499: Honors Thesis	Prefix; Instructor Permission
ECME – Early Childhood	ECME 305: Research and	FCS 305: Research and	Prefix; New Title; Junior
Multicultural Education	Evaluation in Early Childhood	Evaluation in Family and Child Studies	Standing
	ECME 311: Family and	FCS 311: Family, Language	Prefix; New Title; Credit value
	Community Collaboration II	and Culture	change (2 to 3 credits)
	ECME 401: Research in Child	FCS 401: Research in Child	Prefix
	Growth, Development, and	Growth, Development, and	
	Learning	Learning	
	ECME 402: Teaching and	FCS 402: Teaching and	Prefix; New Title
	Learning Reading and Writing	Learning Reading and Writing	
	ECME 417L: Methods and	FCS 417L: Teaching and	Prefix; New Title
	Materials for the Early	Learning Practicum	
	Primary Grades Practicum		
	ECME 440L: Student Teaching	FCS 440L: Student Teaching	Prefix; New Title; Credit value
	Lab	Lab	change (12 to 9 credits)

Form A – Lower Division FCS courses that are required to be offered as "Also Offered As" courses with UNM branch ECME courses. These courses are required for the Associate of Arts in ECME at branch campuses and FCS Bachelor of Science ECED and ECMEL

Pre-K to Grade 3 concentrations on main campus.

Existing ECME	Existing ECME Course Number	Equivalent to FCS Course	Action
Program in	and Title in Branch Campuses	Number and Title	
Branch Campuses	_		
ECME – Early	ECME 101: Child Growth,	FCS 101: Child Growth,	Prefix; AOA ECME 101
Childhood and	Development & Learning	Development & Learning	
Multicultural	•		
Education			
	ECME 103: Health Safety, &	FCS 103: Health Safety, &	Prefix; AOA ECME 103
	Nutrition	Nutrition	
	ECME 111: Family and	FCS 111: Family and	Prefix; New Title; AOA ECME
	Community Collaboration I	Community Collaboration	111
	ECME 115: Guiding Young	FCS 115: Guiding Young	Prefix; AOA ECME 115
	Children	Children	
	ECME 117: Curriculum and	FCS 117: Curriculum	Prefix; New Title;
	Implementation I	Development Through Play	AOA ECME 117
	•	Birth Through Age 4	
	ECME 117L: Curriculum and	FCS 117L: Practicum Birth	Prefix; New Title;
	Implementation Practicum I	through Age 4	AOA ECME 117L
	ECME 202 Introduction to	FCS 202: Introduction to	Prefix; New Title;
	Reading and Literacy	Reading, Language & Literacy	AOA ECME 202
	Development		
	ECME 217: Curriculum and	FCS 217: Curriculum	Prefix; New Title;
	Implementation II	Development and	AOA ECME 217
	•	Implementation Age 3 to	
		Grade 3	
	ECME 217L: Curriculum and	FCS 217L: Practicum Age 3 to	Prefix; New Title;
	Implementation Practicum II	Grade 3	AOA ECME 217L
	ECME 220: Assessment of	FCS 220: Assessment of	Prefix; New Title;
	Children and Evaluation of	Children & Evaluation of	AOA ECME 220
	Programs I	Programs	
	ECME 230: Professionalism	FCS 230: Professionalism	Prefix; AOA ECME 230

Form A – Courses deleted from ECME

- ECME 315: Public Policy, Leadership, Ethics & Reform in ECE
- ECME 317: Integrated Early Childhood Curriculum
- ECME 317L: Integrated Early Childhood Curriculum Practicum
- ECME 391: Problems
- ECME 325: The Social, Political, & Cultural Contexts of Children & Families
- ECME 402L: Teaching Reading & Writing Practicum
- ECME 417: Method & Materials for the Early Primary Grades
- ECME 493: Topics in Early Child Education
- ECME 497: Reading & Research in Honors I
- ECME 498: Reading & Research in Honors II
- ECME 499: Honors Thesis

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Form A – Courses deleted from FS

- FS 207L Infant Lab
- FS 444 Family Finance
- FS 495 Field Experience II

APPENDIX 1

Resource Needs for the Family and Child Studies Undergraduate Degrees

Table 1: Faculty Expertise and Preferred Instructor Qualifications for All Undergraduate FCS Courses

Course	Course title	Preferred Instructor	Kessel		Atencio	Gutierrez-Gomez	Kelly	Lecturer	Asst. Professor
Number		Qualifications							
101	Child Growth Dev Learn	F or TA/PTI	Χ	Х	Χ	X	Х	X	X
102	Carpe Noctem: Sleep	Faculty					Х		
103	Health Safety & Nutrition	F or TA/PTI			Χ	X		Χ	
105	Introduction to FCS	F or TA/PTI	Х	Х	Х	Х	Х	Х	Х
111*	Family & Community Colla								
115	Guiding Young Children	F or TA/PTI	Х	Х	Х	Х	Х	Х	Х
117*	Curriculum Dev & Play								
117L*	Practicum: Birth to Age 4								
202*	Intro to Reading, Language								
203	Infant Growth & Dev	TA or PTI	Х	Х	Х	Х	Χ	Х	Х
213	Marriage & Family Relation	F or TA/PTI	Χ	X	Χ	Х	Χ	X	X
217*	Curriculum Dev & Implem								
217L*	Practicum: Age 3 -Grade 4								
220*	Assessment of Children								
230	Professionalism	Faculty	Χ		Χ	Х		X	
302	Emergent Literacy	Faculty				Х			
304	Middle Childhood	F or TA/PTI	Χ	X	Χ	Х	Χ	X	X
305	Research & Evaluation	Faculty	Χ	Χ	Χ	Х	Х	Χ	X
310	Friends & Intimate Rela	F or TA/PTI		X			Х		X
311	Family, Language and	Faculty	Χ		Χ	Х		Χ	
312	Parent-Child Interactions	F or TA/PTI	Χ	Х	Х	Х	Χ	Х	X
313	Family Theories	F or TA/PTI		Χ			Χ		Х
315	Adolescent Development	F or TA/PTI	Χ	Х	Х	Х	Χ	Х	X
316	Early Childhood Pedagogy	Faculty			Χ	Х		Х	
321	Young Children with Diverse Abilities	SPED							

Course Number	Course title	Preferred Instructor Qualifications	Kessel	Hossain	Atencio	Gutierrez-Gomez	Kelly	Lecturer	Asst. Professor
341	Ecological Aspects of	F or TA/PTI							
343	Family Mgmt. Theories	F or TA/PTI							
344	Consumer Decision	F or TA/PTI		Х					
391	Problems	Faculty							
395	Field Experience	Faculty	Х	Х	Х	Х	Х	Х	Х
401	Research in Child Growth	Faculty	Х	Х	Х	Х	Х	Х	Х
402	Teaching & Learning Read & Writing	Faculty			Х	Х		Х	
403/407L	Preschool Child; Preschool Lab	Faculty	X	Х	Х	X	X	Х	X
405	Advanced Caregiving for Infants and Toddlers	Faculty			Х	Х		Х	
406	Teaching & Learning: Math & Science	Faculty				Х		Х	
408	Teaching & Learning: Social Studies, Fine Arts	Faculty				X		Х	
411	Marriage & Family Life	F or TA/PTI							
412	Fathering	Faculty		Х					
416	Adult Development	F or TA/PTI	Х	Χ	Х	Х	Χ	Х	X
417L	Teach & Learn: Practicum	Faculty	Х		Х	Х		Х	
440/440L	Student Teaching Seminar; Practicum	Faculty				Х		Х	
443	Application of Family	F or TA/PTI							
481	Public Policy & Advocacy	Faculty	Х						
484	The Sociocultural Context of Families	Faculty	Х	Х	Х	Х	Х	Х	Х
493	Topics	Faculty							
497	Reading & Research in Honors I	Faculty							
498	Reading & Research in Honors II	Faculty							

Course Number	Course title	Preferred Instructor Qualifications	Kessel	Hossain	Atencio	Gutierrez-Gomez	Kelly	Lecturer	Asst. Professor
499	Honors Thesis	Faculty							

Table 2: Example Two-Year Schedule For Undergraduate FCS Courses

FCS Courses		Fall 2016	Spring 2017	Summer 2017	Fall 2017	Spring 2018
101	Child Growth Dev Learn	F	F		TA/PTI	TA/PTI
102	Carpe Noctem: Sleep	F			F	
103	Health Safety & Nutrition		TA/PTI			TA/PTI
105	Introduction to FCS	F	F		F	F
111*	Family & Community Colla					
115	Guiding Young Children	TA/PTI	TA/PTI		TA/PTI	TA/PTI
117*	Curriculum Dev & Play					
117L*	Practicum: Birth to Age 4					
202*	Intro to Reading, Language					
203	Infant Growth & Dev	TA/PTI			TA/PTI	
213	Marriage & Family Relation	TA/PTI	TA/PTI	TA/PTI	TA/PTI	TA/PTI
217*	Curriculum Dev & Implem					
217L*	Practicum: Age 3 –Grade 4					
220*	Assessment of Children					
230	Professionalism		F			F
302	Emergent Literacy		F			F
304	Middle Childhood		TA/PTI			TA/PTI
305	Research & Evaluation	F	F		F	F
310	Friends & Intimate Rela	TA/PTI	TA/PTI		TA/PTI	TA/PTI
311	Family, Language and	F	77.4.		F	77.4.
312	Parent-Child Interactions	TA/PTI	TA/PTI		TA/PTI	TA/PTI
313	Family Theories	TA/PTI			TA/PTI	
315	Adolescent Development	TA/PTI	TA/PTI		TA/PTI	TA/PTI
316	Early Childhood Pedagogy	F	17.91.11		F	17.91.11
321	Young Children with Diverse Abilities		F (ITV)			F (ITV)
341	Ecological Aspects of		Y			Y
343	Family Mgmt. Theories	TA/PTI	TA/PTI		TA/PTI	TA/PTI
344	Consumer Decision			TA/PTI		
391	Problems	ARR	ARR	ARR	ARR	ARR
395	Field Experience	F	F	F	F	F
401	Research in Child Growth	F	,	•	F	
402	Teaching & Learning Read &Writing	F			F	
403/	Preschool Child; Preschool Lab		F			F
407L	Treserious crima, Frescribos Edb					
405	Advanced Caregiving for Infants and Toddlers	F			F	
406	Teaching & Learning: Math & Science		F			F
408	Teaching & Learning: Social Studies, Fine Arts	F			F	
411	Marriage & Family Life	TA/PTI			TA/PTI	
412	Fathering		TA/PTI			TA/PTI
416	Adult Development	TA/PTI			TA/PTI	
417L	Teach & Learn: Practicum		TA/PTI			TA/PTI
440/	Student Teaching Seminar; Practicum	F (ITV)			F (ITV)	
440L	, , , , , , , , , , , , , , , , , , ,	` ′			, ,	
443	Application of Family	TA/PTI			TA/PTI	
481	Public Policy & Advocacy	F	F		F	F
484	The Sociocultural Context of Families	F	F	F	F	F
493	Topics	ARR	ARR	ARR	ARR	ARR
497	Reading & Research in Honors I	ARR	ARR	ARR	ARR	ARR
498	Reading & Research in Honors II	ARR	ARR	ARR	ARR	ARR
499	Honors Thesis	ARR	ARR	ARR	ARR	ARR
	100	1				

^{* –} Branch Campus Only; F – Course will be offered by regular faculty; TA/PTI – Course will be offered by TA/PTI; ARR – will be arranged by faculty

APPENDIX 2

Memos addressing potential duplication

MEMORANDUM FROM SPECIAL EDUCATION PROGRAM REGARDING FCS 321

Wednesday, April 16, 2014 at 10:58:40 AM Mountain Daylight Time

Subject: FS 321

Date: Wednesday, March 26, 2014 at 10:51:39 AM Mountain Daylight Time

From: Elizabeth Keefe
To: David Atencio

Dear David:

Thank you for presenting the FS 321 course to the Special Education Faculty on October 3rd, 2013. The faculty voted unanimously to support the offering of this course as part of the new Early Childhood degree. This course does not have significant overlap with any existing SPCD courses. There are special education faculty who would be interested in teaching this course if needed.

Sincerely,

Liz Keefe

Program Coordinator, Special Education

Page 1 of 1

Memorandum from TEELP regarding the entire sequence

From: Cheryl Torrez <catorrez@unm.edu>

Subject: RE: Family and Child Studies Form B approvals

Date: April 11, 2013 11:30:35 AM MDT **To:** David Atencio <datencio@comcast.net>

David, **We see no conflict at all with these courses.** Thanks for your outstanding work! Also, I was in Zuni recently, and a few students were interested in ECME. So, if you receive emails, just a heads up. Thanks, Cheryl

Cheryl A. Franklin Torrez, Ph.D.
Associate Professor and Interim Department Chair
Department of Teacher Education
The University of New Mexico
MSC 05 2040
Albuquerque, NM 87131-000
(505) 277-9611

From: David Atencio [datencio@comcast.net]

Sent: Monday, April 08, 2013 8:12 AM

To: Cheryl Torrez **Cc:** David Atencio

Subject: Family and Child Studies Form B approvals

Good morning Cheryl,

I hope you are off to another exciting and breezy Monday morning! As I shared with you earlier, part of the merger of the Family Studies Program and the ECME program into the new Family and Child Studies program involves the creation of new courses that are in accordance with the revised Birth to PreK and the PreK to Grade Three teacher preparation pathways. These two new degree pathways were approved by the Professional Practices and Standards Council from PED for UNM, NMSU ENMU, WNMU, and NMHU on November 18, 2011. As you may know, we have a universal curriculum for all Associate Degree and Bachelor level degree early childhood programs in New Mexico. Our universal curriculum aligns with the core competencies for both the Birth to PreK and PreK to Grade Three licenses.

As part of the curriculum review process, we respectfully request your review of the attached syllabi for possible duplication with any of your department's courses. Please let me know if I can assist with any questions your faculty may have for us. On behalf of my FCS colleagues, I thank you for assistance with this important task.

Thanks again,

David



STATE OF NEW MEXICO PUBLIC EDUCATION DEPARTMENT 300 DON GASPAR SANTA FE, NEW MEXICO 87501-2786 Telephone (505) 827-5800

www.ped.state.nm.us

HANNA SKANDERA SECRETARY-DESIGNATE OF EDUCATION SUSANA MARTINEZ Governor

March 5, 2012

Dr. David Alencio ECME Program Coordinator 1 University of New Mexico Simpson Hall Albuquerque, New Mexico 87131

Dear Dr. Atencio:

I am pleased to accept the recommendation of the Professional Practices and Standards Council (PPSC) which met on November 18, 2011 to approve Teacher Quality statewide universal early childhood education licensure programs for birth to PreK and PreK to grade 3.

The approved programs apply only to four year universities, specifically Eastern New Mexico University, New Mexico Highlands University, New Mexico State University, University of New Mexico and Western New Mexico University. Also this program does not apply to any early childhood alternative licensure programming.

The community colleges involved do not need NMPED licensure approval, but are expected to provide the universal coursework for transferability and transparency among all state approved early childhood programs.

Your program will provide much-needed support to the school districts in our state.

Please extend my appreciation to your administrators, faculty, and your staff for your preparation and the presentation of your program to the members of the PPSC. I wish you and your staff at ECME every success.

Warm regards,

Hanna Skandera

Secretary Designate of Education

HS/MM/egm

Mary Lou Lovato, NMPED Professional Licensure

Revised 01.04.11

APPENDIX 3

PROPOSED FCS PROGRAM OF STUDIES FOR

- 1. B.S. in Human Development and Family Relations concentration (HDFR)
- 2. General Education courses for the HDFR concentration
- 3. B. S. in Early Childhood Education and Development concentration (ECED)
- 4. Required General Education courses for the ECED concentration
- 5. B.S. in Early Childhood Multicultural Education Licensure Pre-K to Grade 3 concentration (ECMEL)
- 6. Required General Education courses for the ECMEL Pre-K to Grade 3 concentration
- 7. Minor in Family and Child Studies
- 8. B.A. in Family and Child Studies (for A&S students)

B.S. in Family and Child Studies

Concentration: Human Development and Family Relations - HDFR (proposed)

Family and Child Studies Courses

FCS Core Curriculur	n	12 Credits
FCS 105	Introduction to Family and Child Studies	3
FCS 305	Research and Evaluation in Family and Child Studies	3
FCS 481	Public Policy and Advocacy in Family and Child Studies	3
FCS 484	The Sociocultural Context of Children and Families	3
HDFR Concentration	n Core Curriculum	_ 13 Credits
FCS 213	Marriage and Family Relationships	3
FCS 312	Parent-Child Interactions	3
FCS 395	Field Experience	3
FCS 403	Growth and Development of the Preschool Child	3
FCS 407L	Preschool Child Lab	1
Family Relations		9 Credits
FCS 310	Friends and Intimate Relationships	3
FCS 313	Family Theories and Contemporary Lifestyles	3
FCS 411	Marriage and Family Life Education	3
FCS 412	Fathering	3
Human Developme	nt	9 Credits
FCS 203	Infant Growth and Development	3
FCS 304	Growth and Development in Middle Childhood	3
FCS 315	Adolescent Development in the Family	3
FCS 416	Adult Development in the Family	3
Family Resource Ma	anagement	6 Credits
FCS 341	Ecological Aspects of Housing	3
FCS 343	Family Management Theories	3
FCS 344	Consumer Decisions	3
FCS 443	Application of Family Management Theories	3
Total FCS Required	Hours*	_ 49 Credits
Total Credits	120	
(including 40 upper of		
FCS Courses	49 Credits	
Gen Ed Courses	40 Credits	
Minor (Optional)*	18 Credits	
Electives	13 Credits	

^{* 67} FCS credits are required to major in FCS (HDFR concentration) without a minor.

Note: A course in human sexuality is required for the Certified Family Life Educator (CFLE) designation. Consult NCFR's website for details.

*NTSC 263L: Environmental Science (4cr)

UHON 203: Science in the 21st Century

Family and Child Studies

General Education Requirements - HDFR concentration (Total Credits = 40)

AREA 1: Writing and Speaking - 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130, PHIL 156, UHON 201

AREA 2: Mathematics - 3 credit hours

STAT 145

AREA 3: Physical and Natural Sciences - 7 credit hours

BIO 110/112L OR BIO 123/124L AND choose 1 additional course from the following:

ANTH 120: Arch. Method & Theory CHEM 101: Chemistry in Our Community PHYC 102: Introduction to Physics ANTH 122L: Req. Lab for ANTH 120 (1cr) CHEM 111L: Elem of General Chemistry (4cr) PHYC 102L: Opt. Lab for PHYC 102 (1cr) Pre-Spring 2013 ANTH 121L: Arch. M&T(4cr) CHEM 121: General Chemistry I PHYC 105: Physics and Society ANTH 150: Evol & Human Emergence CHEM 123L: Req. Lab for Chem 121 (1cr) PHYC 151: General Physics ANTH 151L: Opt. Lab for ANTH 150 (1cr) CHEM 122: General Chemistry II PHYC 151L: Opt. Lab for PHYC 151 (1cr) ANTH 160: Human Life Course CHEM 124L: Req. Lab for Chem 122 (1cr) PHYC 152: General Physics ANTH 161L: Opt. Lab for ANTH 160 (1cr) CHEM 131L: (Honors) Gen. Chemistry I (4cr) PHYC 152L: Opt Lab for PHYC 152 (1cr) ASTR 101: Intro to Astronomy CHEM 132L: (Honors) Gen. Chemistry II (4cr) PHYC 160: General Physics ASTR 101L: Opt. Lab for ASTR 101 (1cr) EPS 101: Intro to Geology PHYC 160L: Opt. Lab for PHYC 160 (1cr) BIOL 110: Biology for Non-Majors EPS 105L: Opt. Lab for EPS 101 (1cr) PHYC 161: General Physics BIOL 112: Opt. Lab for BIOL 110 (1cr) EPS 201L: Earth History (4cr) PHYC 161L: Opt. Lab for PHYC 161 (1cr) ENVS 101: The Blue Planet *NTSC 261L: Physical Science (4cr) ENVS 102L: Opt. Lab for ENVS 101 *NTSC 262L: Life Science (4cr)

AREA 4: Social and Behavioral Sciences – 6 credit hours. Choose 2 courses from the following:

GEOG 101: Physical Geography

GEOG 105L: Opt. Lab for GEOG 101 (1cr)

AFTS / CCS / NATV / SUST / WMST 109: ECON 105: Intro to Macroeconomics POLS 110: The Political World Intro to Comparative and Global Ethnic Societies ECON 106: Intro to Microeconomics POLS 200: American Politics AMST 182: Intro to Env. Sci. & Technology CRP 181: Intro to Environmental Problems POLS 220: Comparative Politics AMST 185: Race, Class & Ethnicity ENGF 200: Technology in Society POLS 240: International Politics ANTH 101: Intro to Anthropology GEOG 102: Human Geography SOC 101: Intro to Sociology ANTH 130: Cultures of the World LING 101: Intro to Linguistics UHON 204: Individual & Collective

AREA 5: Humanities - 6 credit hours: Choose 2 courses from the following

AFST 104: Intro to Africana Studies ENGL 150: Study of Literature NATV 150: Intro to Native American Studies ENGL 292/293: World Literatures PHIL 101: Intro to Philosophical Problems AMST 186: Intro to Southwest Studies CCS 201: Intro to Chicana & Chicano Studies GEOG 140: World Regional Geography PHIL 201: Greek Thought CLST 107: Greek Mythology HIST 101/L: Western Civilization (to 1648) PHIL 202: From Descartes to Kant CLST 204: Greek Civilization HIST 102/L: Western Civilization (from 1648) RELG 107: Living World Religions CLST 205: Roman Civilization HIST 161/L: History of the US to 1877 **RELG 263**: Eastern Religions CLCS 223/224: Literary Questions HIST 162: History of the US since 1877 RELG 264: Western Religions COMP 222: Fairy and Folk Tales HIST 181: History of Early Latin America UHON - Honors Legacy Sem, 100-200 level UHON 205: Humanities Society & Culture HIST 182: Modern Latin American History COMP 224: Literary Questions MLNG 101: Languages

AREA 6: Foreign Language – 3 credit hours

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts – 3 credit hours required. Choose 1 course from the following:

ARCH 121: Intro to Architecture

Pre-Fall 2010 Arch 101: Intro to Architecture
Appreciation

Pre-Fall 2010 Arch 101: Intro to Architecture
Appreciation

ARTH 101: Intro to Art

MA 210: Intro to Film and Study

THEA 105: Intro to Theatre Appreciation

Pre-Fall 2010 THEA 122: Theatre

UHON 207: Fine Art as Global Perspective

PSY 105: General Psychology

ARTH 201: History of Art 1

MUS 139: Music Appreciation

ARTH 202: History of Art 2 MUS 142: Rock Music Appreciation
Any 3 credit hour studio or performance course offered by the Department of Art and Art History, Music, Theatre and Dance, Media Arts or IFDM.

Additional Requirement - 3 credits hours NUTR 120 OR 224

B.S. in Family and Child Studies

Concentration: Early Childhood Education & Development - ECED (proposed) Family and Child Studies Courses

FCS Degree Core Curi	riculum	_12 Credits
FCS 105	Introduction to Family and Child Studies	3
FCS 305	Research and Evaluation in Family and Child Studies	3
FCS 481	Public Policy and Advocacy in Family and Child Studies	3
FCS 484	The Sociocultural Context of Children and Families	3
Concentration Curric	culum (lower division)	_12 Credits
FCS 101	Child Growth, Development and Learning	3
FCS 102	Carpe Noctem: Sleep, Health & the Family	3
FCS 103	Health, Safety, & Nutrition	2
FCS 111	Family and Community Collaboration	3
FCS 115	Guiding Young Children	3
FCS 117	Curriculum Development through Play	3
FCS 202	Introduction to Language, Literacy, & Reading	3
FCS 203	Infant Growth and Development	3
FCS 213	Marriage and Family Relationships	3
FCS 217	Curriculum Development & Implementation Age 3 to Gr. 3	
FCS 220	Assessment of Children & Evaluation of Programs	3
FCS 230	Professionalism	2
Concentration Core C	Curriculum (upper division)	21 Credits
FCS 302	Emergent Literacy	3
FCS 311	Family, Language and Culture	3
FCS 312	Parent-Child Interactions	3
FCS 316	Early Childhood Pedagogy & Curriculum	3
FCS 401	Research in Child Growth, Development and Learning	3
FCS 403	Growth and Development of the Pre-School Child	3
FCS 405	Advanced Caregiving for Infants and Toddlers	3
FCS Electives (upper	division)	24 Credits
FCS 304	Growth and Development in Middle Childhood	3
FCS 310	Friends and Intimate Relationships	3
FCS 313	Family Theories and Contemporary Lifestyles	3
FCS 315	Adolescent Development in the Family	3
FCS 321	Young Children with Diverse Abilities	3
FCS 341	Ecological Aspects of Housing	3
FCS 343	Family Management Theories	3
FCS 344	Consumer Decisions	3
FCS 395	Field Experience I	3
FCS 407L	Pre-School Child Lab	1
FCS 411	Marriage and Family Life Education	3
FCS 412	Fathering	3
FCS 416	Adult Development in the Family	3
FCS 443	Application of Family Management Theories	3
Total Professional Co	ourses	69 Credits

	otal Credits including 40 credits upper division)	120
F	FCS Courses	69
Manala 2	Gen Ed Courses	40
March 2	Electives	11

General Education Requirements - ECED concentration (Total Credits = 40)

AREA 1: Writing and Speaking - 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130, PHIL 156, UHON 201

AREA 2: Mathematics - 3 credit hours (choose one of the following)

STAT 145, Math 129, or Math 215

AREA 3: Physical and Natural Sciences - 7 credit hours

BIO 110/112L OR BIO 123/124L AND choose 1 additional course from the following:

ANTH 120: Arch. Method & Theory ANTH 122L: Reg. Lab for ANTH 120 (1cr)

Pre-Spring 2013 ANTH 121L: Arch. M&T(4cr)

ANTH 150: Evol & Human Emergence ANTH 151L: Opt. Lab for ANTH 150 (1cr)

ANTH 160: Human Life Course

ANTH 161L: Opt. Lab for ANTH 160 (1cr)

ASTR 101: Intro to Astronomy

ASTR 101L: Opt. Lab for ASTR 101 (1cr)

BIOL 110: Biology for Non-Majors

BIOL 112: Opt. Lab for BIOL 110 (1cr)

CHEM 101: Chemistry in Our Community CHEM 111L: Elem of General Chemistry (4cr)

CHEM 121: General Chemistry I

CHEM 123L: Req. Lab for Chem 121 (1cr)

CHEM 122: General Chemistry II

CHEM 124L: Req. Lab for Chem 122 (1cr) CHEM 131L: (Honors) Gen. Chemistry I (4cr)

CHEM 132L: (Honors) Gen. Chemistry II (4cr)

EPS 101: Intro to Geology

EPS 105L: Opt. Lab for EPS 101 (1cr)

EPS 201L: Earth History (4cr) ENVS 101: The Blue Planet ENVS 102L: Opt. Lab for ENVS 101

GEOG 101: Physical Geography

GEOG 105L: Opt. Lab for GEOG 101 (1cr)

PHYC 102: Introduction to Physics

PHYC 102L: Opt. Lab for PHYC 102 (1cr)

PHYC 105: Physics and Society

PHYC 151: General Physics

PHYC 151L: Opt. Lab for PHYC 151 (1cr)

PHYC 152: General Physics

PHYC 152L: Opt Lab for PHYC 152 (1cr)

PHYC 160: General Physics

PHYC 160L: Opt. Lab for PHYC 160 (1cr)

PHYC 161: General Physics

PHYC 161L: Opt. Lab for PHYC 161 (1cr)

*NTSC 261L: Physical Science (4cr)

*NTSC 262L: Life Science (4cr)

*NTSC 263L: Environmental Science (4cr) UHON 203: Science in the 21st Century

AREA 4: Social and Behavioral Sciences - 6 credit hours. Choose 2 courses from the following:

AFTS / CCS / NATV / SUST / WMST 109:

Intro to Comparative and Global Ethnic Societies AMST 182: Intro to Env. Sci. & Technology

AMST 185: Race, Class & Ethnicity

ANTH 101: Intro to Anthropology ANTH 130: Cultures of the World

PSY 105: General Psychology

ECON 105: Intro to Macroeconomics ECON 106: Intro to Microeconomics CRP 181: Intro to Environmental Problems

ENGF 200: Technology in Society GEOG 102: Human Geography LING 101: Intro to Linguistics

POLS 110: The Political World

POLS 200: American Politics POLS 220: Comparative Politics

POLS 240: International Politics

SOC 101: Intro to Sociology

UHON 204: Individual & Collective

AREA 5: Humanities - 6 credit hours: Choose 2 courses from the following

AFST 104: Intro to Africana Studies

Studies

AMST 186: Intro to Southwest Studies

CCS 201: Intro to Chicana & Chicano Studies

CLST 107: Greek Mythology CLST 204: Greek Civilization CLST 205: Roman Civilization CLCS 223/224: Literary Questions COMP 222: Fairy and Folk Tales

COMP 224: Literary Questions MLNG 101: Languages

ENGL 150: Study of Literature

ENGL 292/293: World Literatures GEOG 140: World Regional Geography HIST 101/L: Western Civilization (to 1648)

HIST 102/L: Western Civilization (from 1648) HIST 161/L: History of the US to 1877 HIST 162: History of the US since 1877

HIST 181: History of Early Latin America HIST 182: Modern Latin American History

NATV 150: Intro to Native American PHIL 101: Intro to Philosophical Problems

PHIL 201: Greek Thought

PHIL 202: From Descartes to Kant RELG 107: Living World Religions

RELG 263: Eastern Religions

RELG 264: Western Religions

UHON - Honors Legacy Sem. 100-200 level UHON 205: Humanities Society & Culture

AREA 6: Foreign Language - 3 credit hours

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts – 3 credit hours required. Choose 1 course from the following:

ARCH 121: Intro to Architecture Pre-Fall 2010 Arch 101: Intro to Architecture

ARTH 101: Intro to Art ARTH 201: History of Art 1

Appreciation

DANC 105: Dance Appreciation FA 284: Experiencing the Arts

THEA 105: Intro to Theatre Appreciation Pre-Fall 2010 THEA 122: Theatre

MA 210: Intro to Film and Study UHON 207: Fine Art as Global Perspective

MUS 139: Music Appreciation MUS 142: Rock Music Appreciation

ARTH 202: History of Art 2 Any 3 credit hour studio or performance course offered by the Department of Art and Art History, Music, Theatre and Dance, Media Arts or IFDM.

Additional Requirement - 3 credits hours

B.S. in Family and Child Studies

Concentration: Early Childhood Multicultural Education PreK -Grade 3 Licensure

Concentration Co	ore Curriculum (lower division)			29 Credits
FCS 101 Chi	ld Growth, Development and Learning	3		
FCS 103 Hea	lth, Safety, & Nutrition	2 3		
FCS 111 Fan	nily and Community Collaboration	3		
FCS 115 Gui	ding Young Children	3		
FCS 117 Cur	riculum Development through Play	3		
FCS 117L Cur	riculum Development through Play Practicum	2 3		
FCS 202 Intr	oduction to Language, Literacy, & Reading	3		
FCS 217 Cur	riculum Development & Implementation Age 3 to Gr. 3	3		
FCS 217L Cur	riculum Development & Implementation Practicum	2		
	essment of Children & Evaluation of Programs	3		
FCS 230 Pro	fessionalism	2		
Concentration C	Core Curriculum (upper division)			9 Credits
FCS 311	Family, Language and Culture		3	
FCS 321	Young Children with Diverse Abilities		3	
FCS 401	Research in Child Growth, Development and Learning		3	
Pre K to Grade	3 Professional courses (upper division)			_24 Credits
FCS 402	Teaching and Learning Reading and Writing		3	
FCS 406	Teaching and Learning Math and Science		4	
FCS 408	Teaching and Learning Social Studies, Fine Arts & Mo	vement	3	
FCS 417I			3 2 3	
FCS 440	Student Teaching Seminar		3	
FCS 440I	Student Teaching		9	
Concentration R	Requirements			12 Credits
LLSS 175	•		3	
LLSS 453	Theoretical and Cultural Foundations of Bilingual Edu	cation	3	
EDPY472			3	
FCS 105	Introduction to Family and Child Studies		3	
Total Profession	al Courses			74 Credits

Total Credits (including 40 credits upper division)	121
Concentration Required Courses Gen Ed Courses	74 47

Family and Child Studies

General Education Requirements – ECME PreK – Grade 3 Licensure Concentration (Total Credits = 47)

AREA 1: Writing and Speaking – 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130,

AREA 2: Mathematics – 6 credit hours

STAT 145. **Math** 215

AREA 3: Physical and Natural Sciences – 8 credit hours

NTSC 261L: Physical Science (4cr)

NTSC 262L: Life Science (4cr)

NTSC 263L: Environmental Science (4cr)

AREA 4: Social and Behavioral Sciences – 9 credit hours. Choose 3 courses from the following:

AFTS / CCS / NATV / SUST / WMST 109: ECON 105: Intro to Macroeconomics POLS 110: The Political World

AMST 182: Intro to Env. Sci. & CRP 181: Intro to Environmental AMST 185: Race, Class & Ethnicity ANTH 101: Intro to Anthropology ANTH 130: Cultures of the World LING 101: Intro to Linguistics

POLS 240: International SOC 101: Intro to Sociology UHON 204: Individual &

POLS 220: Comparative

Collective

AREA 5: Humanities – 9 credit hours: Choose 3 courses from the following:

HIST 101/L: Western Civilization (to 1648) OR HIST 102/L: Western Civilization (from 1648)

HIST 161/L: History of the US to 1877 OR HIST 162/L: History of the US since 1877

HIST 260: History of New Mexico

PSY 105: General Psychology

AREA 6: Foreign Language – 3 credit hours:

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts – 3 credit hours:

ARTE 214: Art in the Elementary and Special Education Classroom

B.A. in Family and Child Studies

(Arts and Sciences Students)

Major: Family and Child Studies (proposed)

FCS Core Curriculum12 C		12 Credits
FCS 105	Introduction to Family and Child Studies	3
FCS 305	Research and Evaluation in Family and Child Stu	ıdies 3
FCS 481	Public Policy and Advocacy in Family and Child Stud	ies 3
FCS 484	The Sociocultural Context of Children and Famil	ies 3
Other Required C	urriculum	12 Credits
FCS 213	Marriage and Family Relationships	3
FCS 312	Parent-Child Interactions	3
FCS 343	Family Management Theories	3
FCS 395	Field Experience	3
	•	
Additional FCS Cu	ırriculum	12 Credits
Total Required H	ours	36 Credits
To fulfill additional	l 12 FCS credits, take any four courses from the list	holowy
10 Iumm <u>additiona</u>	12 res credits, take any four courses from the his	below.
FCS 203	Infant Growth and Development	3
		3 3
FCS 203	Infant Growth and Development	3 3 3
FCS 203 FCS 304	Infant Growth and Development Growth and Development in Middle Childhood	3 3 3 3
FCS 203 FCS 304 FCS 310	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships	3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture	3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles	3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family	3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities	3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing	3 3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341 FCS 344	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing Consumer Decisions	3 3 3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341 FCS 344 FCS 401	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing Consumer Decisions Research in Child Growth, Dev. & Learning	3 3 3 3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341 FCS 344 FCS 401 FCS 403	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing Consumer Decisions Research in Child Growth, Dev. & Learning Growth and Development of the Preschool Child	3 3 3 3 3 3 3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341 FCS 344 FCS 401 FCS 403 FCS 411	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing Consumer Decisions Research in Child Growth, Dev. & Learning Growth and Development of the Preschool Child Marriage and Family Life Education	3 3 3 3 3 3 3 3 3 3

^{*} For Minor and General Education Requisites, please consult with your advisor in your College.

Individual, Family & Community Education Department

Family and Child Studies Program

Page 1 of 1

Minor:

Family and Child	Studies (proposed)		
	Family and Child Studies Courses		
FCS Core Curricult	· · · · · · · · · · · · · · · · · · ·		12 Credits
FCS 105	Introduction to Family and Child Studies	3	
FCS 305	Research and Evaluation in Family and Child Studies	3	
FCS 481	Public Policy and Advocacy in Family and Child Studies	3	
FCS 484	The Sociocultural Context of Children and Families	3	
Additional Courses			6 Credits
FCS 202	Introduction to Language, Literacy, & Reading	3	
FCS 203	Infant Growth and Development	3	
FCS 213	Marriage and Family Relationships	3	
FCS 217	Curriculum Development & Implementation Age 3 to Gr. 3	3	
FCS 220	Assessment of Children & Evaluation of Programs	3	
FCS 304	Growth and Development in Middle Childhood	3	
FCS 310	Friends and Intimate Relationships	3	
FCS 312	Parent-Child Interactions	3	
FCS 313	Family Theories and Contemporary Lifestyles	3	
FCS 315	Adolescent Development in the Family	3	
FCS 316	Early Childhood Pedagogy & Curriculum	3	
FCS 321	Young Children with Diverse Abilities	3	
FCS 341	Ecological Aspects of Housing	3	
FCS 343	Family Management Theories	3	
FCS 344	Consumer Decisions	3	
FCS 395	Field Experience	3	
FCS 401	Research in Child Growth, Development and Learning	3	
FCS 403	Growth and Development of the Preschool Child	3	
FCS 405	Advanced Caregiving for Infants and Toddlers	3	
FCS 411	Marriage and Family Life Education	3	
FCS 412	Fathering	3	
FCS 416	Adult Development in the Family	3	
FCS 443	Application of Family Management Theories	3	

Total FCS Required Hours _____ 18 Credits 3/22/2016 AutoCurric Form C

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Forms

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Current user: cclark48 / Comments (8) / Form Transaction Log

Curriculum Workflow



Link to Curricula Forms Process Manual		
DEGREE/PROGRAM CHANGE FORM C Form Number: C1701		
Fields marked with * are required		
Name of Initiator: Ziarat Hossain		
Proposed effective term Semester Fall ▼ Year 2016 ▼		
Course Information		
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BS Family Studies Select Category * Degree ▼ Degree Type B.S. Select Action Revision ▼		
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)		
FCS UNM Catalog 10.15.15 2016-2017.docx		
Does this change affect other departmental program/branch campuses? If yes, indicate below.		
Reason(s) for Request* (enter text below or upload a doc/pdf file) [THIS FORM REQUESTS REQUIREMENTS REVISIONS AND NAME CHANGE.]see attached document		
Revision of the Family Studies.docx		
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)		
FCS Undergraduate 10.15.15 Executive Summary.docx		
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.		
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)		
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)		
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College of Education

FAMILY AND CHILD STUDIES

Jay Parkes, Department Chairperson
Department of Individual, Family and Community Education
Family and Child Studies, Simpson Hall
MSC05 3040
1 University of New Mexico Albuquerque, NM 87131-0001
(505) 277-4535

Professors

Ziarat Hossain, Ph.D., Syracuse University Frank S. Kessel, Ph.D., University of Minnesota

Associate Professors

David J. Atencio, Ph.D., Stanford University Cathy Gutierrez-Gomez, Ed.D., University of North Texas

Assistant Professor

Ryan Kelly, Ph.D., Auburn University

Professors Emeritae

Estella A. Martinez, Ph.D., Michigan State University Mary Smith, Ph.D., Colorado State University Virginia C. Shipman, Ph.D., University of Pittsburgh Pauline Turner, Ph.D., University of Texas

Contact

For program information and application for undergraduate admission, please contact: The Center for Student Success located in Travelstead Hall in the College of Education. Students who have not been admitted to the university can schedule a meeting at: https://teachnm.wufoo.com/forms/nonunm-student-appointment-form/, students admitted to the university can schedule a meeting at: College of Education Center for Student Success, Travelstead Hall, (505) 277-3190, and Family and Child Studies Program office at Simpson Hall, (505) 277-4535.

Vision

Enhancing the lives of children and families through interrelated theory, research, and practice that address the diverse and complex nature of their futures.

Mission

Our mission is to foster an interdisciplinary scholarly environment that enables early childhood

professionals, family service providers, and researchers in the field of family and child study to

- cultivate and disseminate systematic information and grounded knowledge about the diverse nature of families in contemporary societies
- understand and critically respond to the dynamic complexities of human development across the lifespan
- foster leadership in addressing the multiple facets of early childhood development

Focus

The Family and Child Studies Program (undergraduate through doctoral levels) focuses on understanding the complex influences, relationships, and ecologies of development across the lifespan. Our degree programs prepare students to promote the optimal well-being of families and individuals, recognizing that characteristics and needs of families change across the lifespan and within multiple and diverse contexts. Families provide children's first learning environments, which impact children's education and learning throughout their lives. The preparation of professionals in education is grounded in the deep understanding of families and children. Thus, the Family and Child Studies Program makes a central contribution to preparation of professionals in the College of Education. The program provides an option for professionals to become licensed to teach Pre-K to Grade Three in New Mexico, as well as an option to become nationally certified family life educators.

Majors and Degrees

Family and Child Studies, B.S.

Concentrations:

Human Development and Family Relations (HDFR)

Early Child Education and Development (ECED)

Early Childhood Multicultural Education Licensure (ECMEL) – Pre K to Grade 3

Family and Child Studies, B.A.

Students from the College of Arts and Sciences can earn a B.A. degree in Family and Child Studies. See College of Arts and Sciences for specific program requirements.

Students wishing to apply for the Certified Family Life Educator (CFLE) designation of the National Council on Family Relations refer to the NCFR web site. For details on requirements and application, see http://www.ncfr.org. Note that a course in human sexuality is required for the CFLE certification.

Minor

Family and Child Studies

Contact the Family and Child Studies Program, Simpson Hall, for more information and specific requirements.

Major: Family and Child Studies (B.S.)

Curriculum for HDFR Concentration (49 credits) FCS Core (12 credits)

FCS 105 Introduction of Family and Child Studies	3
FCS 305 Research and Evaluation in Family and Child Studies	3
FCS 481 Public Policy and Advocacy in Family and Child Studies	3
FCS 484 The Sociocultural Context of Children and Families	3
HDFR Concentration Core (13 credits)	
FCS 213 Marriage and Family Relationships	3
FCS 312 Parent-Child Interactions	3
FCS 395 Field Experience	3
FCS 403 Growth and Development of the Preschool Child	3
FCS 407L Preschool Child Lab	1
Family Relations (9 credits)	
FCS 310 Friends and Intimate Relationships	3
FCS 313 Family Theories	3
FCS 411 Marriage and Family Life Education	3
FCS 412 Fathering	3
Human Development (9 credits)	
FCS 203 Infant Growth and Development	3
FCS 304 Growth and Development in Middle Childhood	3
FCS 315 Adolescent Development in the Family	3
FCS 416 Adult Development in the Family	3
Family Resource Management (6 credits)	
FCS 341 Ecological Aspects of Housing	3
FCS 343 Family Management Theories	3
FCS 344 Consumer Decisions	3
FCS 443 Application of Family Management Theories	3
rry	

Students pursuing HDFR concentration must take FCS 403 and FCS 407L concurrently. Also, 67 FCS credits are required to major in FCS (HDFR concentration) without a minor. Upon program approval, students may count up to 6 hours of FCS 391 towards program requirements.

General Education Requirements (40 credits)

AREA 1: Writing and Speaking - 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130, PHIL 156, UHON 201

AREA 2: Mathematics - 3 credit hours

STAT 145

AREA 3: Physical and Natural Sciences – 7 credit hours

BIO 110/112L OR BIO 123/124L AND choose 1 additional course from the following:

ANTH 120: Arch. Method & Theory
ANTH 122L: Req. Lab for ANTH 120 (1cr)

(1cr)

Pre-Spring 2013 ANTH 121L:Arch. M&T(4cr) **ANTH 150**: Evol & Human Emergence

ANTH 151L: Opt. Lab for ANTH 150 (1cr)
ANTH 160: Human Life Course

ANTH 161L: Opt. Lab for ANTH 160 (1cr)

ASTR 101: Intro to Astronomy

ASTR 101L: Opt. Lab for ASTR 101 (1cr)

BIOL 110: Biology for Non-Majors **BIOL 112**: Opt. Lab for BIOL 110 (1cr)

CHEM 101: Chemistry in Our Community
CHEM 111L: Elem of General Chemistry (4cr)

CHEM 121: General Chemistry I

CHEM 123L: Req. Lab for Chem 121 (1cr)
CHEM 122: General Chemistry II

CHEM 124L: Req. Lab for Chem 122 (1cr)
CHEM 131L: (Honors) Gen. Chemistry I (4cr)
CHEM 132L: (Honors) Gen. Chemistry II (4cr)

EPS 101: Intro to Geology

EPS 105L: Opt. Lab for EPS 101 (1cr)
EPS 201L: Earth History (4cr)

ENVS 101: The Blue Planet
ENVS 102L: Opt. Lab for ENVS 101

GEOG 101: Physical Geography
GEOG 105L: Opt. Lab for GEOG 101 (1cr)

PHYC 102: Introduction to Physics
PHYC 102L: Opt. Lab for PHYC 102

PHYC 105: Physics and Society PHYC 151: General Physics

PHYC 151L: Opt. Lab for PHYC 151 (1cr)

PHYC 152: General Physics

PHYC 152L: Opt Lab for PHYC 152 (1cr)

PHYC 160: General Physics

PHYC 160L: Opt. Lab for PHYC 160 (1cr)

PHYC 161: General Physics

PHYC 161L: Opt. Lab for PHYC 161 (1cr)
*NTSC 261L: Physical Science (4cr)
*NTSC 262L: Life Science (4cr)

*NTSC 263L: Environmental Science (4cr) UHON 203: Science in the 21st Century

AREA 4: Social and Behavioral Sciences - 6 credit hours. Choose 2 courses from the following:

AFTS / CCS / NATV / SUST / WMST 109: Intro to Comparative and Global Ethnic Societies

AMST 182: Intro to Env. Sci. & Technology
AMST 185: Race, Class & Ethnicity

ANTH 101: Intro to Anthropology
ANTH 130: Cultures of the World
PSY 105: General Psychology

ECON 105: Intro to Macroeconomics
ECON 106: Intro to Microeconomics
CRP 181: Intro to Environmental Problems
ENGF 200: Technology in Society

GEOG 102: Human Geography
LING 101: Intro to Linguistics

POLS 110: The Political World
POLS 200: American Politics
POLS 220: Comparative Politics
POLS 240: International Politics
SOC 101: Intro to Sociology
UHON 204: Individual & Collective

AREA 5: Humanities – 6 credit hours: Choose 2 courses from the following

AFST 104: Intro to Africana Studies

Studies

AMST 186: Intro to Southwest Studies
CCS 201: Intro to Chicana & Chicano Studies

CLST 107: Greek Mythology
CLST 204: Greek Civilization
CLST 205: Roman Civilization
CLCS 223/224: Literary Questions
COMP 222: Fairy and Folk Tales
COMP 224: Literary Questions

MLNG 101: Languages

ENGL 150: Study of Literature

ENGL 292/293: World Literatures
GEOG 140: World Regional Geography
HIST 101/L: Western Civilization (to 1648)
HIST 102/L: Western Civilization (from 1648)

HIST 161/L: History of the US to 1877 HIST 162: History of the US since 1877 HIST 181: History of Early Latin America

HIST 182: Modern Latin American History

NATV 150: Intro to Native American

PHIL 101: Intro to Philosophical Problems

PHIL 201: Greek Thought
PHIL 202: From Descartes to Kant
RELG 107: Living World Religions
RELG 263: Eastern Religions
RELG 264: Western Religions

UHON - Honors Legacy Sem, 100-200 level **UHON 205**: Humanities Society & Culture

AREA 6: Foreign Language - 3 credit hours

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts – 3 credit hours required. Choose 1 course from the following:

ARCH 121: Intro to Architecture DANC 105: Dance Appreciation THEA 105: Intro to Theatre Appreciation

Pre-Fall 2010 Arch 101: Intro to Architecture FA 284: Experiencing the Arts Pre-Fall 2010 THEA 122: Theatre

Appreciation

ARTH 101: Intro to Art

MA 210: Intro to Film and Study

UHON 207: Fine Art as Global

Perspective

ARTH 201: History of Art 1

MUS 139: Music Appreciation

ARTH 202: History of Art 2 MUS 142: Rock Music Appreciation

Any 3 credit hour studio or performance course offered by the Department of Art and Art History, Music, Theatre and Dance, Media Arts or IFDM.

Additional Requirement - 3 credits hours

NUTR 120 OR 224

In addition, the student must complete unrestricted electives for a minimum total of 120 credit hours. Consult the program faculty for specific courses. The student must complete 40 hours above 300. Grades of C or better are required in all General Education and Family and Child Studies courses used to meet the HDFR requirement.

Curriculum for ECED Concentration (69 credits) FCS Core (12 credits) FCS 105 Introduction to Family and Child Studies 3 FCS 305 Research and Evaluation in Family and Child Studies 3 FCS 481 Public Policy and Advocacy in Family and Child Studies 3 FCS 484 The Sociocultural Context of Children and Families 3 **ECED Concentration (lower division - 12 credits)** FCS 101 Child Growth, Development and Learning 3 FCS 102 Carpe Noctem: Sleep, Health & the Family 3 2 FCS 103 Health, Safety, & Nutrition FCS 111 Family and Community Collaboration 3 FCS 115 Guiding Young Children 3 3 FCS 117 Curriculum Development through Play 3 FCS 202 Introduction to Language, Literacy, & Reading 3 FCS 203 Infant Growth and Development FCS 213 Marriage and Family Relationships 3 3 FCS 217 Curriculum Development & Implementation Age 3 to Gr. 3 FCS 220 Assessment of Children & Evaluation of Programs 3 2 FCS 230 Professionalism **ECED Concentration Core (upper division - 21 credits)** FCS 302 Emergent Literacy 3 3 FCS 311 Family, Language and Culture FCS 312 Parent-Child Interactions 3 3 FCS 316 Early Childhood Pedagogy & Curriculum 3 FCS 401 Research in Child Growth, Development and Learning FCS 403 Growth and Development of the Pre-School Child 3 FCS 405 Advanced Caregiving for Infants and Toddlers 3 FCS Electives (upper division - 24 credits) FCS 304 Growth and Development in Middle Childhood 3

FCS 310 Friends and Intimate Relationships	3
FCS 313 Family Theories and Contemporary Lifestyles	3
FCS 315 Adolescent Development in the Family	3
FCS 321 Young Children with Diverse Abilities	3
FCS 341 Ecological Aspects of Housing	3
FCS 343 Family Management Theories	3
FCS 344 Consumer Decisions	3
FCS 395 Field Experience	3
FCS 407L Pre-School Child Lab	1
FCS 411 Marriage and Family Life Education	3
FCS 412 Fathering	3
FCS 416 Adult Development in the Family	3
FCS 443 Application of Family Management Theories	3

General Education Requirements (40 credits)

AREA 1: Writing and Speaking – 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130, PHIL 156, UHON 201

AREA 2: Mathematics – 3 credit hours (choose one of the following)

STAT 145, Math 129, or Math 215

AREA 3: Physical and Natural Sciences – 7 credit hours

BIO 110/112L OR BIO 123/124L AND choose 1 additional course from the following:

ANTH 120: Arch. Method & Theory	CHEM 101: Chemistry in Our Community	PHYC 102: Introduction to Physics
ANTH 122L : Req. Lab for ANTH 120 (1cr) (1cr)	CHEM 111L: Elem of General Chemistry (4cr)	PHYC 102L: Opt. Lab for PHYC 102
Pre-Spring 2013 ANTH 121L: Arch. M&T(4cr)	CHEM 121: General Chemistry I	PHYC 105: Physics and Society
ANTH 150: Evol & Human Emergence	CHEM 123L: Req. Lab for Chem 121 (1cr)	PHYC 151: General Physics
ANTH 151L: Opt. Lab for ANTH 150 (1cr)	CHEM 122: General Chemistry II	PHYC 151L: Opt. Lab for PHYC 151 (1cr)
ANTH 160: Human Life Course	CHEM 124L: Req. Lab for Chem 122 (1cr)	PHYC 152: General Physics
ANTH 161L: Opt. Lab for ANTH 160 (1cr)	CHEM 131L: (Honors) Gen. Chemistry I (4cr)	PHYC 152L: Opt Lab for PHYC 152 (1cr)
ASTR 101: Intro to Astronomy	CHEM 132L: (Honors) Gen. Chemistry II (4cr)	PHYC 160: General Physics
ASTR 101L: Opt. Lab for ASTR 101 (1cr)	EPS 101: Intro to Geology	PHYC 160L: Opt. Lab for PHYC 160 (1cr)
BIOL 110: Biology for Non-Majors	EPS 105L: Opt. Lab for EPS 101 (1cr)	PHYC 161: General Physics
BIOL 112: Opt. Lab for BIOL 110 (1cr)	EPS 201L: Earth History (4cr)	PHYC 161L: Opt. Lab for PHYC 161 (1cr)
	ENVS 101: The Blue Planet	*NTSC 261L: Physical Science (4cr)
	ENVS 102L: Opt. Lab for ENVS 101	*NTSC 262L: Life Science (4cr)
	GEOG 101: Physical Geography	*NTSC 263L: Environmental Science (4cr)
	GEOG 105L: Opt. Lab for GEOG 101 (1cr)	UHON 203: Science in the 21st Century

AREA 4: Social and Behavioral Sciences – 6 credit hours. Choose 2 courses from the following:

AFTS / CCS / NATV / SUST / WMST 109:	ECON 105: Intro to Macroeconomics	POLS 110: The Political World
Intro to Comparative and Global Ethnic Societies	ECON 106: Intro to Microeconomics	POLS 200: American Politics
AMST 182: Intro to Env. Sci. & Technology	CRP 181: Intro to Environmental Problems	POLS 220: Comparative Politics
AMST 185: Race, Class & Ethnicity	ENGF 200: Technology in Society	POLS 240: International Politics
ANTH 101: Intro to Anthropology	GEOG 102: Human Geography	SOC 101: Intro to Sociology
ANTH 130: Cultures of the World	LING 101: Intro to Linguistics	UHON 204: Individual & Collective
PSV 105: General Psychology		

AREA 5: Humanities – 6 credit hours: Choose 2 courses from the following

AFST 104: Intro to Africana Studies ENGL 150: Study of Literature NATV 150: Intro to Native American

Studies

AMST 186: Intro to Southwest Studies

CCS 201: Intro to Chicana & Chicano Studies

CLST 107: Greek Mythology CLST 204: Greek Civilization CLST 205: Roman Civilization CLCS 223/224: Literary Questions COMP 222: Fairy and Folk Tales COMP 224: Literary Questions

MLNG 101: Languages

ENGL 292/293: World Literatures

GEOG 140: World Regional Geography HIST 101/L: Western Civilization (to 1648) HIST 102/L: Western Civilization (from 1648)

HIST 161/L: History of the US to 1877 HIST 162: History of the US since 1877

HIST 181: History of Early Latin America HIST 182: Modern Latin American History PHIL 101: Intro to Philosophical Problems

PHIL 201: Greek Thought PHIL 202: From Descartes to Kant **RELG 107**: Living World Religions

RELG 263: Eastern Religions RELG 264: Western Religions

UHON - Honors Legacy Sem, 100-200 level **UHON 205**: Humanities Society & Culture

THEA 105: Intro to Theatre Appreciation

Pre-Fall 2010 THEA 122: Theatre

UHON 207: Fine Art as Global

AREA 6: Foreign Language – 3 credit hours

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts - 3 credit hours required. Choose 1 course from the following:

ARCH 121: Intro to Architecture

Pre-Fall 2010 Arch 101: Intro to Architecture

Appreciation

ARTH 101: Intro to Art

Perspective

ARTH 201: History of Art 1

ARTH 202: History of Art 2

DANC 105: Dance Appreciation FA 284: Experiencing the Arts

MA 210: Intro to Film and Study

MUS 139: Music Appreciation

MUS 142: Rock Music Appreciation Any 3 credit hour studio or performance course offered by the Department of Art and Art History, Music, Theatre and Dance, Media Arts or IFDM.

Additional Requirement - 3 credits hours

NUTR 120 OR 224

In addition, the student must complete unrestricted electives for a minimum total of 120 credit hours. Consult the program faculty for specific courses. The student must complete 40 hours above 300.

Curriculum for ECMEL Pre-K to Grade 3 Concentration (74 credits)

Lower Division Core (29 credits)

FCS 101	Child Gro	owth, Development and Learning	3	
FCS 103		afety, & Nutrition	2	
FCS 111	Family a	nd Community Collaboration	3	
FCS 115	Guiding Y	Young Children	3	
FCS 117	Curriculi	ım Development through Play	3	
FCS 117L	Curriculu	ım Development through Play Practicum	2	
FCS 202	Introduc	tion to Language, Literacy, & Reading	3	
FCS 217	Curriculu	im Development & Implementation Age 3 to Gr. 3	3	
FCS 217L	Curriculu	ım Development & Implementation Practicum	2	
FCS 220	Assessr	nent of Children & Evaluation of Programs		
FCS 230	Profession	onalism	2	
Concentrati	ion Core (upper division - 9 credits)		
	S 311	Family, Language and Culture		3
	S 321	Young Children with Diverse Abilities		3
	S 401	Research in Child Growth, Development and Learn	ning	3
Pre K to Gra	ade 3 prof	fessional courses (upper division - 24 credits)		
FC	S 402	Teaching and Learning Reading and Writing		3
	S 406	Teaching and Learning Math and Science		4
	S 408	Teaching and Learning Social Studies, Fine Arts &	Movement	3 2 3
	S 417L	Teaching and Learning Practicum		2
	S 440	Student Teaching Seminar		3
FC	S 440L	Student Teaching		9
	_	rements (12 credits)		
LL	SS 175	Foundations of American Indian Education		3
LL	SS 453	Theoretical and Cultural Foundations of Bilingual		3

General Education Requirements (47 credits)

EDPY472

FCS 105

AREA 1: Writing and Speaking - 9 credit hours

ENGL 110 OR **ENG**L 111/112 OR 113 AND **ENGL** 120

Classroom Assessment

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130,

Introduction to Family and Child Studies

3

3

AREA 2: Mathematics - 6 credit hours

STAT 145, **Math** 215

AREA 3: Physical and Natural Sciences - 8 credit hours

NTSC 261L: Physical Science (4cr)

NTSC 262L: Life Science (4cr)

NTSC 263L: Environmental Science (4cr)

AREA 4: Social and Behavioral Sciences - 9 credit hours

Choose 3 courses from the following:

AFTS/CCS/NATV/SUST/WMST 109:

AMST 182: Introduction to environmental science and

AMST 185: Race, Class, & Ethnicity

ANTH 101: Introduction to Anthropology

ANTH 130: Cultures of the World

CRP 181: Introduction to Environmental

ENGF 200: Technology in Society GEOG 102: Human Geography

LING 101: Introduction to Linguistics

POLS 110: The Political World

POLS 220: Comparative POLS: 240: International

SOC 101: Introduction to Sociology

PSY 105: General Psychology

UHON 204: Individual and Collective

AREA 5: Humanities - 9 credit hours

Choose 3 courses from the following:

HIST 101/L: Western Civilization (to 1648) OR **HIST 102/L**: Western Civilization (from 1648)

HIST 161/L: History of the US to 1877 OR **HIST 162/L**: History of the US since 1877

HIST 260: History of New Mexico

AREA 6: Foreign Language - 3 credit hours:

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts - 3 credit hours:

ARTE 214: Art in the Elementary and Special Education Classroom

Major: Family and Child Studies (B.A.)

FCS Core (12 cred	lits)	
FCS 105	Introduction to Family and Child Studies	3
FCS 305	Research and Evaluation in Family and Child Studies	s 3
FCS 481	Public Policy and Advocacy in Family and Child Stud	lies 3
FCS 484	The Sociocultural Context of Children and Families	3
Other Required C	Core (12 credits)	
FCS 213	Marriage and Family Relationships	3
FCS 312	Parent-Child Interactions	3
FCS 343	Family Management Theories	3
FCS 395	Field Experience	3
Additional FCS Cu	ırriculum (12 credits)	
FCS 203	Infant Growth and Development	3
FCS 304	Growth and Development in Middle Childhood	3
FCS 310	Friends and Intimate Relationships	3 3 3 3
FCS 311	Family Language and Culture	3
FCS 313	Family Theories and Contemporary Lifestyles	3
FCS 315	Adolescent Development in the Family	
FCS 321	Young Children with Diverse Abilities	3 3 3
FCS 341	Ecological Aspects of Housing	3
FCS 344	Consumer Decisions	3
FCS 401	Research in Child Growth, Dev. & Learning	3
FCS 403	Growth and Development of the Preschool Child	3
FCS 411	Marriage and Family Life Education	3 3 3
FCS 412	Fathering	3
FCS 416	Adult Development in the Family	3
FCS 443	Application of Family Management Theories	3

B. A. FCS students, please consult with your advisor in your College for Minor and General Education Requisites.

Suggested Minor for FCS Students (18–21 credits)

Anthropology

Communication and Journalism

Economics

English

Management

Psychology

Sociology

Women Studies

Note: See minor department for specific requirements and/or information. Also, be advised that minor is not a requirement for the College of Education students majoring in Family and Child Studies. A student without a minor must complete a total of 57 hours in Family and Child Studies.

Curriculum for Family and Child Studies Minor

A Minor in Family and Child Studies consists of a total of 18 hours. The distribution of 18 hours is as follows:

FCS Core (12 credits) FCS 105 3 Introduction to Family and Child Studies 3 FCS 305 Research and Evaluation in Family and Child Studies 3 FCS 481 Public Policy and Advocacy in Family and Child Studies The Sociocultural Context of Children and Families 3 FCS 484 Additional FCS Curriculum (6 credits) FCS 202 Introduction to Language, Literacy, & Reading 3 FCS 203 Infant Growth and Development 3 3 FCS 213 Marriage and Family Relationships Curriculum Development & Implementation Age 3 to Gr. 3 3 FCS 217 Assessment of Children & Evaluation of Programs 3 FCS 220 3 FCS 304 Growth and Development in Middle Childhood 3 FCS 310 Friends and Intimate Relationships 3 FCS 312 Parent-Child Interactions 3 FCS 313 Family Theories and Contemporary Lifestyles 3 FCS 315 Adolescent Development in the Family FCS 316 Early Childhood Pedagogy & Curriculum 3 3 FCS 321 Young Children with Diverse Abilities **Ecological Aspects of Housing** 3 FCS 341 3 FCS 343 Family Management Theories **Consumer Decisions** 3 FCS 344 3 FCS 395 Field Experience I 3 FCS 401 Research in Child Growth, Development and Learning 3 FCS 403 Growth and Development of the Preschool Child Advanced Caregiving for Infants and Toddlers 3 FCS 405 FCS 411 Marriage and Family Life Education 3 3 FCS 412 **Fathering** 3 Adult Development in the Family FCS 416 3 FCS 443 Application of Family Management Theories

Nine hours must be numbered above 300. Grades of C or better are required in all Family and Child Studies courses used to meet this requirement. This is a non-teaching minor. If the courses are required in both the major and the minor, an equivalent number of approved hours shall be added to the total hour requirement.

In addition, the student must complete unrestricted electives for minimum total of 120 credit hours. Consult the program faculty for specific courses. The student must complete 40 hours above 300.

This minor is available for majors in all departments with approval from major advisors.

Departmental Honors

The Departmental Honors program is open to Family and Child Studies majors who have an overall GPA of at least 3.50. Students must seek advisement from a faculty member willing to serve as mentor for the honors courses and research. An Honors thesis is written during the student's final semester. Required courses are FCS 497, 498, and 499. These courses are in addition to those required for the major (and/or concentration).

Family and Child Studies (FCS)

101. Child Growth, Development, and Learning. (3)

This basic course in the growth, development, and learning of young children, provides foundational knowledge of how young children grow, develop and learn.

102. Students will learn about issues in sleep research with a focus on the examination of sleep in the family context. The course will emphasize how family processes influence sleep across development and vice versa.

103. Health, Safety, and Nutrition. (2)

This course provides information related to standards and practices that promote children's physical and mental well-being, sound nutritional practices, and maintenance of safe learning environments.

105. Introduction to Family and Child Studies (3)

This course is designed to provide students with a broad introduction to primary concepts, theories, and research methods in Family and Child Studies from an ecological and interdisciplinary perspective.

111. Family and Community Collaboration. (3)

This basic course examines the involvement of families from diverse cultural & linguistic backgrounds in early childhood programs. Ways to establish collaborative relationships with parents and others involved with children in early childhood settings are discussed.

115. Guiding Young Children. (3)

This course explores theories of child guidance and practical applications. It provides developmentally appropriate methods for guiding children, effective strategies and suggestions for facilitating positive social interactions.

117. Curriculum Development through Play Birth to Age 4. (3)

This beginning curriculum course focuses on developmentally appropriate content in early childhood programs and developmentally appropriate curriculum integration into teaching and learning experiences. Co-requisite: 117L

117L. Practicum - Birth through Age 4. (2)

This course provides opportunities for students to apply knowledge gained from ECME 117 and develop skills in planning developmentally appropriate learning experiences for young children including children with special needs. Co-requisite: 117

202. Introduction to Language Literacy and Reading. (3)

This is a basic course in children's emergent literacy and reading development: Ways to foster phonemic awareness, literacy problem solving skills, fluency, vocabulary, comprehension, and language development are explored.

203. Infant Growth and Development. (3)

This focuses on basic needs and growth factors of the child with emphasis on the prenatal period, infancy, and the through the second year.

213. Marriage and Family Relationships. (3)

The course provides an overview of significant research and theories in premarital, marital, and family relationships.

217. Curriculum Development and Implementation. (3)

This basic course focuses on the learning environment and the implementation of curriculum in early childhood programs Age 3 to Grade 3. Various curriculum models and teaching and learning strategies are explored. Co-requisite: 217L

217L. Practicum Age 3 to Grade Three. (2)

This course provides opportunities to apply knowledge gained in the above course and develop skills in planning learning environments and implementing curriculum for young children including those with special needs. Co-requisite: 217

220. Assessment of Children & Evaluation of Programs I. (3)

This basic course familiarizes students with a variety of culturally appropriate assessment methods and instruments, and the development and use of formative and summative program evaluation to ensure quality.

230. Professionalism. (2)

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced.

302. Emergent Literacy. (3)

This advanced course prepares early childhood professionals to teach reading and writing in Birth to PreK classrooms. This course covers a broad spectrum of topics relevant to the teaching of reading.

304. Growth and Development in Middle Childhood. (3)

This course discusses principles of growth and development for 6 to 11-year-olds in language, cognitive, physical, motor, social and emotional areas. Also, influences on development are included.

305. Research and Evaluation in Family and Child Studies. (3)

This course focuses on critical roles research and evaluation play in informing professionals working with children and families in teaching and non-teaching contexts and cultivates an appreciation for research related to families and children.

310. Friends and Intimate Relationships. (3)

This course surveys the research concerning friends and intimate relationships. It also focuses on the dynamic characteristics of friendship and other intimate relationships.

311. Family, Language, and Culture. (3)

This advanced course prepares prospective teachers for working effectively as partners with linguistically and culturally diverse family and community members to facilitate the development and learning of children birth through age 8, including children with special needs.

312. Parent-Child Interactions. (3)

This course covers dynamic interactions of parents and children throughout the life cycle in diverse family configurations.

313. Family Theories. (3)

This course focuses on family theories, conceptual frameworks and research relevant to current family lifestyles including single parents, remarried, same sex, and cohabitants. Prerequisite: 213

315. Adolescent Development in the Family. (3)

This course focuses on developmental interaction and communication patterns of adolescents within a family setting.

316. Early Childhood Curriculum & Pedagogy (3)

Course focuses on developmentally appropriate practices and contents, learning environments, and curriculum implementation for children in PreK to Grade 3. Emphasizes integration of content areas, including reading/writing, math, science, social studies, & technology.

Restriction: Admitted to program, junior standing

321. Young Children with Diverse Abilities. (3)

This advanced course builds upon student understanding of the connections among learning, teaching, and assessment and strategies for evaluating programs. It provides a specific focus on educational policies, programs, practices, and services appropriate for infants, toddlers, preschoolers, and early primary children who exhibit delays and disabilities. Prerequisite FCS 220

341. Ecological Aspects of Housing. (3)

This course addresses characteristics and variations in housing structures and the impact of housing on family functioning.

343. Family Management Theories. (3)

This course focuses on the comparison of current theories of family management.

344. Consumer Decisions. (3)

This course discusses role of the family member as a consumer and exploration of the

resources available for purchase decisions.

391/591. Problems. (1-6 to a maximum of 6) [1-3 to a maximum of 3]

Restriction: Permission of instructor.

395. Field Experience. (1-6 to a maximum of 6; student should enroll for 3 credits)

This course combines 120 hours of practical experience in agency or institutional setting with class seminar. Students apply and integrate knowledge and skills for working with or on behalf of individuals and/or families.

Restriction: permission of instructor.

401. Research in Child Growth, Development, and Learning. (3)

This advanced course in child growth, development, and learning builds upon the foundational material covered in the basic course in child growth, development, and learning. An integration of major theories of child development is provided.

402. Teaching & Learning Reading and Writing. (3)

This advanced course prepares early childhood professionals to teach reading and writing in K-3 classrooms. This course covers a broad spectrum of topics relevant to the teaching of reading.

Restriction: Admitted to program, junior standing

403. Growth and Development of the Preschool Child. (3)

This course discusses developmental principles and recent research on language, cognitive, physical-motor and social-emotional development of the preschool child. Co-requisite: 407L.

405. Advanced Caregiving for Infants and Toddlers. (3)

This advanced course prepares early childhood professionals to teach reading and writing in K-3 classrooms. This course covers a broad spectrum of topics relevant to the teaching of reading.

Restriction: Admitted to program, junior standing

406. Teaching and Learning Math and Science. (4)

The focus of this advanced curriculum course is on the standards, principles, and practices in teaching mathematics and science to young children in preschool through GRADE 3. An emphasis is placed on developing a content-rich integrated math and science curriculum that focuses on children's development and interests, includes appropriate content, processes, environment, and materials.

Restriction: Admitted to program, junior standing

407L. Preschool Child Laboratory. (1)

Laboratory experience in child care center; must be taken concurrently with 403. Field

activity includes participation or observation/ participation. Hours arranged. Pre- or co-requisite: 403.

408. Teaching and Learning Social Studies, Fine Arts and Movement. (3)

The course focuses on the aims, scope, and integration of methods of teaching social studies, the fine arts, and movement across the curriculum. This course emphasizes an integrated approach to teaching the "what and why" of social studies; assessing student learning; planning units, lessons, and activities; developing effective instructional strategies.

Restriction: Admitted to program, junior standing

411. Marriage and Family Life Education. (3)

This course is designed to discuss philosophies and processes of family life education (FLE) programs.

412. Fathering. (3)

This course examines fathers' role in child development across cultural groups. Conceptualization of fathering and the relationship between cultural beliefs and fathering behaviors are explored.

416. Adult Development in the Family. (3)

This course examines the biological, psychological and sociocultural aspects of adult development and aging and their dynamic interactions within the context of diverse family structures and lifestyles. Implications for prevention and intervention strategies are discussed.

417L. Teaching and Learning Practicum. (2)

The is a co-requisite course with FCS 402, FCS 406, and FCS 408. The field based component of this set of courses will provide experiences that address curriculum content and practice teaching that is relevant for children PRE-K-GRADE 3 Restriction: Admitted to program, junior standing

440. Student Teaching Seminar. (3)

Weekly seminar where students engage in critical reflection and discussion of their own practice, make connections between theory and practice. Students focus on developing competencies, self-assessments, and develop a professional portfolio.

Co-requisite: ECME 440L

Restriction: Admitted to program, Senior standing

440L. Student Teaching Lab. (9)

Student teaching experience in early childhood including placement and assigned tasks in an early childhood classroom with a mentor teacher. Co-requisite weekly seminar for review and reflection of teaching practices.

Co-requisite: ECME 440

Restriction: Admitted to program, Senior standing

443. Application of Family Management Theories. (3)

Discussion of working with family members to identify and help meet family demands with an emphasis on family resource use. The course requirement includes 40 hours in a field setting. Prerequisite: 343.

481. Public Policy & Advocacy in Family & Child Studies. (3)

Synthesis of issues in Family Studies with emphasis on the formulation and impact of public policies.

Restriction: Junior standing.

484. The Sociocultural Context of Families. (3)

The course focuses on how cultural values and belief structures, immigration and adjustment experiences, and other socioeconomic conditions shape the current family compositions and functioning patterns of ethnic minority families in the U. S. Restriction: Junior standing.

493/593. Topics. (1-3, no limits)

Restriction: permission of instructor

497. Reading and Research in Honors I. (2)

Advanced studies and research under the supervision of a faculty mentor. Restriction: permission of instructor.

498. Reading and Research in Honors II. (2)

Advanced studies and research under the supervision of a faculty mentor. Prerequisite: 497. Restriction: permission of instructor.

499. Honors Thesis. (2)

Prerequisite: 498. Restriction: permission of instructor.

Revision of the Family Studies (FS) and the Early Childhood and Multicultural Education (ECME) Programs

&

Proposed Family & Child Studies (FCS) Program

Merger & Changes in the Undergraduate FS and ECME,

Department of Individual, Family & Community Education
College of Education
University of New Mexico

Summary of the Revision and Merger

Proposed (Effective Fall 2016)
Revise to B. S. in FCS with 3 concentrations:
- Human Development and Family Relations (120 credits)
- Early Childhood Education & Development (120 credits)
- Early Childhood Multicultural Education Licensure, Pre-K to Grade 3 (121 credits)
Delete
Delete
B. A. in FCS (A&S students)
Revise to minor in FCS (18 credits)
Delete

Vision of the Family & Child Studies Program

Enhancing the lives of children and families through inter-related theory, research, and practice that address the diverse and complex nature of their futures.

Mission of the Family & Child Studies Program

Our mission is to foster an interdisciplinary scholarly environment that enables early childhood professionals, family service providers, and researchers in the field of family and child study to

- cultivate and disseminate systematic information and grounded knowledge about the diverse nature of families in contemporary societies
- understand and critically respond to the dynamic complexities of human development across the lifespan
- foster leadership in addressing the multiple facets of early childhood development

Introduction

The Family & Child Studies Program (FCS) is targeted to begin Fall 2016 as the culmination of an intensive, 4-year review and revision of two existing programs in the Department of Individual, Family and Community Education (IFCE). These programs are:

Family Studies (FS); and

Early Childhood Multicultural Education (ECME)

The establishment of the FCS Program will also involve eliminating another degree program (Human Development and Family Relations – HDFR) that currently exists under the FS Program.

Family Studies currently offers Bachelor's, Master's and Doctoral degrees, and both the HDFR and ECME Programs offer the Bachelor of Science degree. The reimagination and consolidation of these degree programs are the basis for the comprehensive revision of the degree requirements for the proposed FCS degree offerings. More generally, the proposed FCS program is grounded in a firm commitment to (a) emphasize research productivity on the part of its faculty and both undergraduate and graduate students, (b) strengthen its academic offerings at all degree levels, and (c) provide excellent mentoring of its graduate and doctoral students aimed at developing leaders and quality researchers in the field.

As noted above, the proposed FCS program is the outcome of a comprehensive review of the Family Studies, Human Development and Family Relations, and Early Childhood Multicultural Education programs at the Bachelor level, and the Family Studies program at the Master and Doctoral levels. The proposed changes are therefore not aimed at creating any new degree programs but, rather, revisions of the existing Bachelor of Science, Bachelor of Arts, Master of Arts and Doctor of Philosophy degrees in Family Studies. In line with the proposed merger, a Form C will be submitted to delete both the ECME and HDFR Bachelor of Science degrees. The revision of the FS – B.S. degree to the FCS – B.S. degree will result in three concentrations as follows:

- a) Human Development and Family Relations (HDFR 120 credits)
- **b)** Early Childhood Education and Development (ECED 120 credits)
- c) Early Childhood Multicultural Education Licensure (ECMEL 121 credits), Pre-K to Grade 3

The changes will result in a revised subject code (FCS) for all courses offered in the merged program and the FS and ECME subject code will expire for courses offered on main campus.

Reasons for Request

FS and ECME faculty have shared academic interests that focus on families, children, and communities. The complementarity of such interests and expertise will be significantly enhanced by the proposed merger. In addition, the merger will help us pool resources to effectively address both faculty and student involvement in academic processes and products. We envision that such a consolidation will improve the quality of our teaching, research, advisement, and other professional contributions and services. As a key corollary, students will be a part of a vibrant, innovative program and will experience a well-supported academic and learning environment.

As already indicated, the Form C to revise the existing Family Studies Bachelor of Science degree is part of a deliberative process to merge two existing programs, Early Childhood Multicultural Education and Family Studies, in the Department of Individual, Family, and Community Education in the College of Education. As part of this process, the existing ECME Bachelor of Science degree and the existing HDFR Bachelor of Science degrees will be deleted. Minors in the Family Studies and Human Development and Family Relations will also be deleted, resulting in a revised minor in Family and Child Studies (FCS). The current Form C will include three concentrations (Human Development and Family Relations – HDFR, Early Childhood Education and Development – ECED, and Early Childhood Multicultural Education Licensure - ECMEL, Pre-K to Grade 3) that effectively revise and more efficiently organize existing programs of study in three separate Bachelor degree pathways (ECME, FS, & HDFR). It may be important to note that if all gets approved, the University of New Mexico will offer a state of the art, high-quality, and rigorous undergraduate degree program for individuals seeking license for Pre-K to Grade 3 that includes deep knowledge in early childhood education, child development, and family well-being.

Justification of the Merged FCS Program

The Early Childhood Multicultural Education Program and the Family Studies Program faculty believe that the proposed merger is an appropriate evolution of programs that have been closely linked since the creation of the ECME program at UNM following the adoption of the Birth to Grade Three Teaching License by the then New Mexico State Board of Education in 1993. Three UNM faculty members from Family Studies were part of the original group that developed the licensure competencies and developed the proposal for the new ECME degree program at UNM. That program began admitting students in 1996. From 1996 to 1999 Family Studies faculty taught courses in ECME; since 1999, at least three Family Studies courses have been taught each academic year by ECME faculty. And in the past three years, ECME faculty members have taught at least five Family Studies courses each academic year.

The original plan for ECME included five-tenure/tenure track faculty. However, this plan was never realized. From 1998 to 2000 the ECME program had 4.5-tenure/tenure track faculty. From 2000 to 2007 the ECME program operated with only 2.5 faculty. Similarly, the Family Studies program experienced significant attrition of its faculty from 1998 to 2015, decreasing from nine tenure/tenure track faculty members to only two. Given this history, a primary reason for the merger proposal is the need to create a future-oriented program with a critical mass of faculty able to sustain both quality and expansion to meet the needs of its students and to contribute meaningfully to the field of Family & Child Studies. Especially in light of the economic challenges affecting higher education, it seems clear that two programs in the College of Education, functioning separately and with only five full-time tenure-track faculty total (two FS and three ECME), would not be able to sustain quality and growth. In addition, the colleagues in Family Studies and ECME see such a merger as exactly the type of redesign and interdisciplinary initiative that the university is encouraging to respond effectively to the need for excellence in programs and creativity that reflects trends in a range of fields. More specifically, the faculty colleagues have agreed that merging the two programs would enable them to address more effectively the critical need for preparing professionals for positions of leadership in New Mexico in the context of programs and services for young children, their families, and the wider community.

Several important reasons factored into the re-design of our proposed bachelor of science degree program that includes a new early childhood teacher preparation pathway leading to state license.

First, July 2014 witnessed the state's adoption of two new early childhood licenses that replaced the original Birth to Grade 3 License. The "Birth to Pre K" and "Pre K to Grade Three" licenses. The state adopted a "non-licensure" Birth to PreK option for early childhood professionals who require a degree in early childhood but not a state license (e. g., Head Start personnel).

Second, the Early Childhood Teacher Preparation pathway in New Mexico includes a complete Associate of Arts degree program requiring 35 general education credits and 29 professional courses that are offered at almost every community college and branch campus in New Mexico. Unlike other teacher educator programs in New Mexico, Early Childhood Educator programs are under a statewide full articulation agreement that requires UNM to accept 11 of the 20 required professional courses for licensure taken at any of the other colleges in New Mexico.

Third, since 2002, the state has adopted a "universal curriculum" in early childhood which mandates that all courses for Associate and Bachelor level degrees have identical course titles, course descriptions, and course competencies, a comprehensive review of all Associate degree programs in the state revealed a wide range of quality in Associate of Arts Early Childhood programs across our state.

Fourth, we are concerned that our ability to be accountable for the quality of our program and the competency level of our graduates would be compromised by the fact that students could transfer in 86 of the 135 credits required courses from other institutions under state articulation and our own university rules.

Fifth, our governor signed into law Senate Bill 329 in April of this year. This act amends the school personnel act by reducing the general education requirements for teachers in New Mexico. In response to SB 329, our college established a Curriculum Consensus Committee to approve modifications to existing teacher preparation degree programs and to enhance our teacher preparation programs with additional course work aimed at cultural responsiveness, classroom assessment, bilingual education, and special education.

Sixth, in 2014 the provost's office encouraged undergraduate degree programs to develop 120 credit degree plans in order to align with national trends that also would address the increasing cost of higher education, and graduation rates.

To these ends, the FCS program is proposing three concentrations that address these six issues. The revised Bachelor of Science degree will offer two 120-credit concentrations and one 121-credit concentration that leads to PreK to Grade 3 New Mexico teaching license. Taken together, HDFR, ECED, and ECMEL Pre-K to Grade 3 concentrations will afford students with opportunities to develop deep understandings of children's growth, development and learning, family health and well-being as well as acquiring deep knowledge of the important ways in which family relationships, socialization, and community engagement factor into children's readiness for succeeding in school.

The proposed revision will offer a high-quality, state of the art program that responds to the Provost Office's of increasing graduation and reducing total number of credits in undergraduate programs offered at UNM. In the revised FCS program, the total number of credits required in two non-license concentrations of the bachelor level degree program will be 120 credits (i. e., a reduction from 135 to 120 credits) and the Pre-K to Grade 3 license pathway will be 121 credits. In addition, the proposed revision modifies and updates existing courses from both

Family Studies and ECME and also includes new courses from within the College of Education in preparing teachers for the PreK to Grade 3 teaching license.

The FCS faculty strongly believe the re-designed early childhood teacher preparation concentration and the proposed non-licensure early childhood education and development concentration address shortcomings of the current undergraduate teacher preparation method in New Mexico that has heretofore focused primarily on transferability from community colleges and focus on state certification. The original Early Childhood licensure model in NM was designed prior to the adoption of the three-tier teacher licensing system in New Mexico, and the significant growth of diversity of early childhood positions in New Mexico that require higher education but not state certification. Our new design assures quality, cost efficiency, and comprehensiveness in early childhood teacher preparation, and in preparing professionals to work in a variety of positions that serve young children, families, and communities.

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Curriculum Workflow



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Associated Forms exist?* No ▼ Initiator's Title* Associate Director: LAll General Administrat
Faculty Contact* Matias Fontenia Administrative Contact* Amanda Wolfe
Department* Latin American Studies Admin Email* akwolfe@unm.edu
Branch Main Admin Phone* 277-7044
Proposed effective term
Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Graduate Degree Program ▼
Name of New or Existing Program* PhD Latin American Studies w/ MA En Route
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Ph.D. in Latin American Studies

The Ph.D. in Latin American Studies is a small and highly selective program designed to prepare students for a limited number of targeted careers that are best advanced by an interdisciplinary doctorate. Such students include individuals who seek employment in areas where the ability to research and teach across disciplines would be an advantage, and where having skills in two disciplines, combined with Latin American area expertise, would be more useful than extensive training within one discipline.

Degree Requirements

General University rules and regulations pertaining to graduate study at the University of New Mexico are detailed in the <u>The Graduate Program</u> section of this Catalog. The Latin American Studies Handbook is updated each year and provides more in-depth information to students in the LAS program. Students are responsible for knowing and abiding by the rules laid out in the <u>UNM Catalog</u> and the <u>Latin American Studies Handbook</u>.

The Ph.D. in Latin American Studies requires a minimum of 48 credit hours of graduate course work, plus an additional 18 dissertation credit hours, for a total of 66 credit hours.

Students choose 2 concentrations for a total of 42 credit hours, plus 6 credit hours of elective courses. The concentrations include Anthropology, Art History, Brazilian Literature, Built Environment (School of Architecture and Planning), Communication, Economics, Geography and Environmental Studies, History, International Management (Anderson School of Management), Political Science, Public Health (School of Medicine), Sociology, Spanish-American Literature, and Spanish Linguistics. Students can choose 21 credit hours in each concentration, so that both concentrations have equal weight, or 15-27 credit hours in each, with a primary and secondary concentration.

Of the 48 total credit hours required for the Ph.D., a minimum of 24 credit hours must be taken after admission to the doctoral program. The Associate Director for Academic Programs must approve any course work taken at the master's level and applied towards the Ph.D.

Competence is required in one Latin American language by the time of degree completion. Competence in more than one Latin American language may be critical in certain areas of study. As such, some concentrations may require competence in a second language. For details, see the *Latin American Studies Handbook*. Competence is considered to be successful completion of advanced-level course work, or passing a language proficiency examination. Students who have completed an undergraduate or graduate degree in Latin America or Iberia satisfy the language requirements.

A Committee on Studies (COS) must be formed at least one semester before the student plans to take comprehensive examinations. The COS is composed of at least two members from each concentration. The student creates a reading list in consultation with all members of his or her COS, and the committee approves the list the semester prior to the scheduled exam. The comprehensive examinations are coordinated and administered by the Latin American Studies program in conjunction with the student's COS. Upon successful completion of the comprehensive examinations, an M.A. in Latin American Studies is conferred and students are advanced to candidacy within the doctoral program.

Reason for Request

The proposed MA en route to PhD acknowledges the time and effort students have committed to their graduate studies. To earn the PhD in LAS, students must complete a total of 48 credit hours (exclusive of dissertation hours), 24 of which must be completed after formal admission to the doctoral program. The MA en route to PhD option allows students to commence with their doctoral studies, complete the majority of the 48 required hours, sit for their comprehensive examinations, and receive their MA at the same time they are advanced to candidacy for the PhD.

This is a successful model embraced by other departments on campus which aids in the recruitment of graduate students and supports the university's desire to increase the number of graduate degrees awarded. It's important to note that the integrity and intellectual rigor of the graduate program is in no way compromised. Students still complete the requisite graduate courses and must demonstrate scholarly capacity through the successful completion of comprehensive exams.

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Curriculum Workflow



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Name of Initiator: Amanda Kay Wolfe Email: akwolfe@unm.edu Phone Number: 505 277-7044 Date: 10-13-2015 Associated Forms exist?* No Initiator's Title* Associate Director: LAll General Administrat Faculty Contact* Matias Fontenla Administrative Contact* Amanda Wolfe Department* Latin American Studies Admin Email* akwolfe@unm.edu Branch Main Admin Phone* 277-7044			
Proposed effective term Semester Fall ▼ Year 2016 ▼			
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Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)			
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PhD LAS Communication Concentration

Concentration Requirements

Students select two concentrations from the following:

Anthropology, Art History, Brazilian Literature and Culture, Built Environment, Economics, Geography and Environmental Studies, History, International Management, Political Science, Public Health, Sociology, Spanish-American Literature, Spanish Linguistics.

Select from the following list of courses for each concentration, in consultation with the Associate Director for Academic Programs and the COS. All courses must contain at least 40% Latin American content; exceptions may be approved by the Associate Director and COS.

Anthropology

ANTH 510, 511, 522, 524, 529, 532, 533, 537, 539, 546, 547, 561, 574, 579, 585.

Art History

ARTH 500, 511, 512, 529, 549, 550, 560, 580, 583, 585, 590, 593, 594.

Brazilian Literature and Culture

PORT *461, 514, 515, 516, 517, 521, 557, 558, 570; SPAN 502.

Built Environment

ARCH 502, 503, 504, 505, 509, 515, 516, 517, 521, 523, 524, 534, 541, 542, 544, 551, 552, 563, 564, 581, 590, 591, 593, 661, 662, 691, 692, 693, 694, 695;

CRP 500, 503, 508, 510, 511, 513, 515, 516, 520, 521, 525, 527, 528, 530, 531, 532, 533, 535, 537, 543, 545, 551, 562, 563, 567, 569, 570, 572, 573, 574, 576, 577, 578, 580, 581, 582, 583, 584, 585, 587, 590, 591, 593, 691, 692, 693, 694, 695;

LA 501, 502, 503, 505, 508, 511, 512, 521, 531, 556, 558, 559, 560, 561, 563, 580, 581, 582, 586, 590, 591, 593, 691, 692, 693, 694, 695.

Communication

CJ 506, 517, 518, 519, 555, 566, 569, 604.

Economics

ECON *410, *421, *423, *424, *427, *429, *442, *445, *466, *478, 508, 509, 510, 520, 521, 522, 533, 534, 538, 540, 542,543, 544, 545, 546, 560, 562, 564, 565, 581, 582, 583, 584, 585, 595.

Geography and Environmental Studies

GEOG *445, *481L, *499, 501, 502, 514, 515, 516, 517, 525, 561, 562, 564, 567, 580L, 581L, 583L, 584L, 585L, 586L, 587L, 588L, 591.

History

HIST 518, 560, 570, 571, 573, 574, 576, 577, 629, 643, 644, 645, 648, 649, 650, 651, 652, 653, 656, 664, 665, 673, 685, 686, 687, 688, 689, 690, 692.

International Management

MGMT 511, 524, 574, 583, 594, 595, 596, 597.

Political Science

POLS 510, 511, 512, 520, 521, 525, 540, 541, 551, 552, 570, 580, 581, 582, 584, 585, 681.

Public Health

ANTH 620; CJ 553, 555; ECON 564; HIST 610; PH 502, 505, 508, 533, 554, 556, 565, 579, 583; SOC 540; SPAN **439.

Sociology

SOC 506, 507, 509, 510, 514, 520, 528, 532, 584.

Spanish American Literature

SPAN *438, 502, 504, 531, 536, 601, 631, 639.

Spanish Linguistics

SPAN 541, 545, 546, 547, 549.

Relevant electives outside of the Department may be taken only if pre-approved by the departmental Graduate Committee.

Reason for Request

The proposed Communication concentration would promote education and research on communication in Latin America and the Caribbean. It would capitalize on the Department of Communication & Journalism's (C&J) strengths in intercultural communication and other international specializations, including border studies. The department's breadth of Latin Americanist, internationalist, and Southwest focused faculty, its success in recruiting international students, and its tradition of respected international scholarship make for strong synergies with Latin American Studies and bode well for the concentration. The proposed collaboration would also help support C&J's stated commitments to (1) provide students with the tools needed to succeed in a challenging global work environment; (2) value, embrace, and support diversity as an integral component of communication; and (3) use the Southwest and the international borderlands environment to focus the study of intercultural communication.

There is considerable student interest in having a concentration like Communication. Demand coupled with a plethora of existing courses and faculty in this area make this a reasonable and justifiable concentration to add to the Latin American Studies program.

Impact and Workload Implications

The proposed changes would likely influence enrollments modestly in Communication courses. Experience with other disciplinary concentrations involving LAS suggests enrollment in the listed courses should exceed no more than 2 or 3 students. The Communication department does have sufficient capacity to support the shift in enrollments in specific courses associated with the proposed changes. Finally, no additional faculty or courses will be necessary.

The changes would not require any additional resources from the UNM Libraries or IT beyond those associated with slight increases in graduate enrollments in certain courses. No additional specialized collections of information resources would be required.

The Communication Concentration draws entirely on current faculty, currently-offered courses, and a strong library collection. No additional library, budgetary, or faculty resources are required. In addition, there is no additional impact on long-range planning. There are no additional proposed courses or requirements that would require resources.

Re: LAS PhD Concentration in Communication + Form C!

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Patricia Covarrubias

Reply|

To:

Matias Fontenla;

Cc:

Amanda Wolfe;

Fri 9/11/2015 9:18 AM

Hola Matias,

Thanks for your email and the updated materials, and for alerting me to the new student arriving in Spring 2016..

I'll set up a meeting with Martina to talk about the handbook and (re)set dates. We'd already determined a timeline; but, we'll revisit it.

If possible, I'd like to talk about the program of study that Martina and I developed, even though she presumably already shared it with you. If your schedule is too jammed, Matias, perhaps a face-to-face meeting with Amanda?

Thank you.

Patricia

Patricia O. Covarrubias Ph.D.
PhD Program Director
Associate Professor
The University of New Mexico
Communication and Journalism
MSC 032240; 1 University of New Mexico

Albuquerque, NM 87131 Email: pocb@unm.edu

Home Page: http://www.unm.edu/~baillet/

¡Sí se puede!

"Never, never, never never give up!"

From: Matias Fontenla

Sent: Friday, September 4, 2015 4:19 PM

To: Patricia Covarrubias **Cc:** Amanda Wolfe

Subject: LAS PhD Concentration in Communication + Form C!

Patricia,

Hope all is well with you!

Attached is our latest version of our LAS PhD handbook. I think you should have it both as Martina's advisor, and the Grad advisor of C&J.

We currently have Martina Nebbiai and Monserrat Fernandez as LAS PhD students that have chosen one of their 2 concentrations in Communication. In Spring 16 we should have Denisse Vasquez joining them.

Important parts start on page 13, which I summarize for you:

- Students need to form a Committee on Studies (COS) with 2 faculty in each of the 2 concentrations.
- Student presents the faculty in each concentration a reading list, that is agreed upon.
- Student takes written comp exams. Standard LAS procedure is for the student to have approx 48 hrs to complete (usually Friday @ 5pm to Monday at 8am).
- After passing the exams in both concentrations, student forms a dissertation committee (minimum 2 faculty from main concentration, and minimum 1 faculty from second concentration. Student advances to candidacy.
- On page 36 is the Communication concentration guidelines.

Also, we just realized that our Form C application for Communication got lost somewhere, so
we need to fill out a Form C and submit it (it is basically sending page 36 to the faculty senate, +
a brief description to our LAS PhD). We will do it, but I am giving you heads up, since it may be
you or your chair that need to OK it!

Thanks!!!!

Matías

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Curriculum Workflow



DEGREE/PROG	RAM CHANGE	
FORI		4
	umber: C1704	
Fields marked with * are required		
Name of Initiator: Amanda Kay Wolfe	Phone Number: 505 277-7044	Date: 10-13-2015
	ociate Director: LAII General Admi	
	Administrative Contact* Amanda	Wolfe
Department* Latin American Studies	Admin Email* akwolfe@un	m.edu
Branch Main	Admin Phone* 277	7-7044
Proposed effective term		
Semester Fall ▼ Year 2016 ▼		
Course	e Information	
Select Appropriate Program* Graduate Degree Program Name of New or Existing Program* MA Latin American Studies ▼		
Select Category * Degree ▼ Degree Type		
Select Action Revision ▼		
Funct Title and Descriptions at a stage of the cold appear in the cotales	If there is a shown a surland assure	
Exact Title and Requirements as they should appear in the catalog See current catalog for format within the respective college (upload a		rent and proposed requirements.
MALAS Exit Requirements.docx	,	
IVIALAO EXILITEGUITETTO. GOOX		
Does this change affect other departmental program/branch of	campuses? If yes, indicate below	1.
Reason(s) for Request* (enter text below or upload a doc/pdf file)		
See attached.		
LAS MA Exit Requirements Reason.docx		
Upload a document that inloudes justification for the program, imp	oact on long-range planning, deta	iled budget analysis and faculty
workload implications.* (upload a doc/pdf file)		
LAS MA Exite Requirements Impact.docx		
Are you proposing a new undergraduate degree or new underg	graduate certificate? If yes, uplo	ad the following documents.
Upload a two-page Executive Summary authorized by Associate F	Provost.* (upload a doc/pdf file)	
Upload memo from Associate Provost authorizing go-ahead to full	Il proposal.* (upload a doc/pdf file)	
	ents on this Form	
and the second of the second o	Form or Review Forms	

Degree Requirements

Plan I (thesis option): 36 credit hours. Students must take LTAM 510 Pro-Seminar in Latin American Studies, and select two areas of concentration within the degree program. Students have the option of completing 9 credit hours in one concentration and 15 credit hours in the other concentration or completing 12 credit hours in each concentration. The remaining 9 credit hours are divided between 3 credit hours of program electives and 6 credit hours of thesis credits.

Students under the Plan I option must complete a minimum of 12 credit hours in graduate seminars numbered 500 or above (excluding 551 or 552 Problems courses) and 6 credit hours of thesis numbered 599. Students should consult with the Associate Director to determine which courses are considered seminars. Students are required to present an oral defense of the thesis, which integrates the two concentrations, before a thesis committee composed of at least two faculty members in one concentration and one faculty member from the second concentration. Students also are required to sit for the comprehensive examination in the second concentration, administered by three faculty members from that concentration.

Plan II (non-thesis option): 36 credit hours. Students must take LTAM 510 Pro-Seminar in Latin American Studies, and select two areas of concentration within the degree program. Students have the option of completing 9 credit hours in one concentration and 15 credit hours in the other concentration or completing 12 credit hours in each concentration. The remaining 12 credit hours are comprised of electives. In lieu of the thesis, Students complete one exit option for each concentration. Students can choose the same option for each concentration or choose a combination of options from the following: complete a professional paper deemed worthy of publication by a Committee on Studies composed of two faculty members from the concentration; complete a written comprehensive examination administered by a Committee on Studies composed of two faculty members from the examinations are administered by a Committee on Studies composed of two faculty members from each concentration.

Under the Plan II option, students must complete a minimum of 12 credits in graduate seminars numbered 500 or above (excluding 551 or 552 Problems courses). Students should consult with the Associate Director to determine which courses are considered seminars.

Reason for Request

The proposed changes to the exit requirements for the MA in LAS are threefold:

- 1) Students will benefit much more from producing scholarly work that is worthy of review by refereed journals. While the thesis allows students to pursue an in-depth research topic, it is too lengthy for publication in a journal but too brief for manuscript consideration. As a result, the work is viewed by a smaller audience and doesn't adequately prepare those students who plan to pursue a PhD for the challenges of producing journal articles.
- 2) Years of experience have demonstrated that the majority of students who pursue the thesis take much longer to complete their degree. A few very bright, self-motivated, structured students are able to complete their course work and defend their thesis within the expected two years but most get lost in the process and languish for three, four, even five years. This creates an additional burden on faculty who are supervising students who must spend additional time nudging and shepherding such students. Faculty have expressed a desire to work with students to produce publishable papers which stand a much greater chance to be read by a larger population. Students and faculty can also benefit by submitting co-authored works to refereed journals.
- 3) For students who don't plan to pursue a doctoral degree, the MA comprehensive exam provides an option to demonstrate their mastery of knowledge without imposing the time required to produce publishable quality work expected by the academy. The exams, however, still maintain the necessary rigor to assess a student's performance in a graduate program.

Impact and Workload Implications

The proposed changes will not adversely impact workload. Faculty must dedicate significant time to mentor and serve on graduate committees regardless of the exit option chosen by students. However, if more students choose to pursue a professional paper in lieu of the thesis, faculty time might be invested more wisely with better results.

The revised exit option will not require any additional resources from the UNM Libraries or IT.

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DEGREE/PROGRAM CHANGE FORM C Form Number: C1706			
Fields marked with * are required			
Name of Initiator: David Atencio			
Proposed effective term Semester Fall ▼ Year 2016 ▼			
Course Information			
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BS Early Childhood Multicultural Education Select Category * Degree ▼ Degree Type BS Select Action Deletion ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirement See current catalog for format within the respective college (upload a doc/pdf file)	ts.*		
Does this change affect other departmental program/branch campuses? If yes, indicate below. Reason(s) for Request* (enter text below or upload a doc/pdf file) Degree program prepared individuals to receive the Birth to Third Grade teaching license. License no longer exists. New PreK to Grade teaching license was enacted in 2014. Proposed concentration in Early Childhood Multicultural Education PreK to Grade 3 Licensure for revised Bachelor of Science degree in Family and Child Studies will now prepare students to become licensed to teach early childhood Mexico.	or the		
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)	/		
ECME BS Deletion Statement .docx			
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.			
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)			
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)			
View Comments on this Form Comment on this Form or Review Forms			
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Department of Individual, Family & Community Education

Deletion of the Bachelor of Science in Early Childhood Multicultural Education (BS ECME)

Please see Executive Summary for the proposed revision of the Bachelor of Science in Family Studies for the detailed budget implication, two year schedule of classes, and faculty work load implications as they relate to the deletion of the ECME Bachelor of Science degree.

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DEGREE/PROGRAM CHANGE FORM C Form Number: C1708			
Fields marked with * are required			
Faculty Contact* David Atencio	* Associate Professor: Individual Family Comm Educ I Administrative Contact* Cynthia Salas		
Department* Individual, family, and community education Branch Main	Admin Email* casalas@unm.edu Admin Phone* 277-4318		
Proposed effective term Semester Fall ▼ Year 2016 ▼ Course Info			
	rmation		
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BS Family and Child Studies - Early Select Category * Concentration ▼ Degree Type BS Select Action New ▼	Childhood Multicultural Ed Licensenure Pre-K to Grade 3 Concent		
Exact Title and Requirements as they should appear in the catalog. If t See current catalog for format within the respective college (upload a docate)			
ECMEL Concentration, FCS BS Requirements.docx 4 Year Degree Plan FCS-BS ECMEL Concentration.docx			
☐ Does this change affect other departmental program/branch camp	ouses? If yes, indicate below.		
Reason(s) for Request* (enter text below or upload a doc/pdf file) Proposed concentration meets requirements for students pursuing the neconcentration replaces the old BS in ECME that no longer meets the requirequirements from 132 to 121 credits. The proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active Mexico enacted by Senate Bill 239 effective 2016. This proposed concentration also active 2016 and 2016 active	irements of the new teaching license and also reduces the degree didresses the reduction of general education courses for all teachers in neentration of the proposed Bachelor of Science degree in Family and College of Education's Curriculum Consensus Committee that terms of improving responsivness to cultural and linguistic diversity,		
Upload a document that inlcudes justification for the program, impact workload implications.* (upload a doc/pdf file)	on long-range planning, detailed budget analysis and faculty		
ECMEL Concentration Statement Form C.docx			
Are you proposing a new undergraduate degree or new undergrad	uate certificate? If yes, upload the following documents.		
Upload a two-page Executive Summary authorized by Associate Prove	pst.* (upload a doc/pdffile)		
Upload memo from Associate Provost authorizing go-ahead to full pro	posal.* (upload a doc/pdf file)		
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2016-17 Degree Plan

Family and Child Studies, BS (Early Childhood Multicultural Education PreK-Grade 3 Licensure Concentration)

 $\textbf{College of Education: Department of Individual, Family, and Community Education (4\,Year\,Plan)}$

(All required general education courses must conform to UNM core curriculum)

Term 1 Hours Towards Degree: 14	Hours	Minimum Grade	Notes
ENGL 110: Accelerated Composition or ENGL 111: Composition I and ENGL 112: Composition II or ENGL 113: Enhanced Composition	3	С	
LLSS 175: Foundations of American Indian Education	3	С	
HIST 101: Western Civilization to 1648 or HIST 102: Western Civilization Post 1648	3	С	
FCS101: Child Growth Development and Learning	3	С	
FCS 103: Health Safety and Nutrition	2	С	
Social and Behavioral Science	3	С	
Term Hours:	17		
Prm 2 HoursTowardsDegree: 32 Hours	Minimum Grade	Notes	
ENGL 120: Composition III	3	С	
ARTE 214: At in the Elementary and Special Education Classroom	3	С	
HIST 161: History of the United States to 1877 or HIST 162: History of the United States Since 1877	3	С	
FCS 111: Family and Community Collaboration I	3	С	
FCS115: Guiding Young Children	3	С	
Term Hours	s: 15		
Term 3 Hours Towards Degree: 50	Hours	Minimum Grade	Notes
NTSC261L or NTSC 262L or NTSC 263L	4	С	
HIST 260: History of New Mexico	3	С	
ENGL219: Technical and Professional Writing or Engl 220: Expository C & J 130: Public Speaking	Writing or 3	С	
FCS 117: Curriculum Development Through Play	3	С	
FCS 117L: Curriculum Development Through Play Practicum	2	С	
FCS 220: Assessment of Children and Evaluation of Programs	3	С	
Term Ho	ours: 18		
	Jul 3. 10		
Term 4 HoursTowardsDegree:65	Hours	Minimum Grade	Notes
Term 4 HoursTowardsDegree: 65 NTSC 226L or NTSC 262L or NTSC 263L Environmental Science		Minimum Grade	Notes
•	Hours		Notes
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science	Hours 4	С	Notes
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies	Hours 4 3	c c	Notes
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies FCS 217: Curriculum and Implementation Age 3 to Grade 3 FCS 217L: Curriculum and Implementation Age 3 to Grade 3	Hours 4 3 3	c c c	Notes
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies FCS 217: Curriculum and Implementation Age 3 to Grade 3 FCS 217L: Curriculum and Implementation Age 3 to Grade 3 Practicum	Hours 4 3 3 2	C C C	Notes
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies FCS 217: Curriculum and Implementation Age 3 to Grade 3 FCS 217L: Curriculum and Implementation Age 3 to Grade 3 Practicum FCS 202: Introduction to Language, Literacy & Reading	Hours 4 3 3 2	C C C	Notes
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies FCS 217: Curriculum and Implementation Age 3 to Grade 3 FCS 217L: Curriculum and Implementation Age 3 to Grade 3 Practicum FCS 202: Introduction to Language, Literacy & Reading Term Hot	Hours 4 3 3 2 urs: 15	C C C	Notes
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies FCS 217: Curriculum and Implementation Age 3 to Grade 3 FCS 217L: Curriculum and Implementation Age 3 to Grade 3 Practicum FCS 202: Introduction to Language, Literacy & Reading Term Hot	Hours 4 3 3 2 4 Urs: 15 Hours	C C C C	
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies FCS 217: Curriculum and Implementation Age 3 to Grade 3 FCS 217L: Curriculum and Implementation Age 3 to Grade 3 Practicum FCS 202: Introduction to Language, Literacy & Reading Term 5 Hours Towards Degree: 82 LLSS 453: Theoretical and Cultural Foundations of Bilingualism	Hours 4 3 3 2 3 urs: 15 Hours	C C C Minimum Grade	
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies FCS 217: Curriculum and Implementation Age 3 to Grade 3 FCS 217L: Curriculum and Implementation Age 3 to Grade 3 Practicum FCS 202: Introduction to Language, Literacy & Reading Term 5 Hours Towards Degree: 82 LLSS 453: Theoretical and Cultural Foundations of Bilingualism EDPY 472: Classroom Assessment	Hours 4 3 3 2 3 urs: 15 Hours	C C C Minimum Grade C	
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies FCS 217: Curriculum and Implementation Age 3 to Grade 3 FCS 217L: Curriculum and Implementation Age 3 to Grade 3 Practicum FCS 202: Introduction to Language, Literacy & Reading Term Hot Term 5 Hours Towards Degree: 82 LLSS 453: Theoretical and Cultural Foundations of Bilingualism EDPY 472: Classroom Assessment FCS 401: Research in Child Growth, Development and Learning	Hours 4 3 3 2 3 urs: 15 Hours 3 3 3 3	C C C C Minimum Grade C C B	
NTSC 226L or NTSC 262L or NTSC 263L Environmental Science FCS 105: Introduction to Family and Child Studies FCS 217: Curriculum and Implementation Age 3 to Grade 3 FCS 217L: Curriculum and Implementation Age 3 to Grade 3 Practicum FCS 202: Introduction to Language, Literacy & Reading Term Hot Term 5 Hours Towards Degree: 82 LLSS 453: Theoretical and Cultural Foundations of Bilingualism EDPY 472: Classroom Assessment FCS 401: Research in Child Growth, Development and Learning FCS 311: Family Language and Culture	Hours 4 3 3 2 3 urs: 15 Hours 3 3 3 3 3 3	C C C Minimum Grade C C B B	

Term 6 HoursTowardsDegree: 97	Hours	Minimum Grade	Notes
FCS 408: Teaching & Learning Social Studies, Fine Arts & Movement	3	В	
FCS 402: Teaching & Learning Reading and Writing	3	В	
FCS 321: Young Children with Diversabilities	3	В	
Social and Behavioral Science	3	С	
MATH 215: Mathematics for Elementary and Middle School Teachers III	3	С	
Term Hours:	15		
Term 7 HoursTowardsDegree:109	Hours	Minimum Grade	Notes
Stat 145: Introduction to Statistics	3	С	
Social and Behavioral Science	3	С	
FCS 406: Teaching & Learning Math and Science	4	В	
FCS 417L: Teaching & Learning Practicum	2	В	
Term Hours:	12		
Term 8 HoursTowardsDegree:121	Hours	Minimum Grade	
FCS 440L: Student Teaching	9	В	
FCS 440: Student Teaching Seminar	3	В	
Term Hours:	12		
			Notes

Crucial course: ①/Acrucial course is a predictor for success in obtaining this degree. It should be taken in the term indicated in order to ensure timely progress to graduation.)

Department of Individual, Family & Community Education

Bachelor of Science in Family and Child Studies (Revision of the Bachelor of Science in Family Studies)

Concentration: Early Childhood Multicultural Education Prek to Grade 3 Licensure (121 Credit Hours)

Justification of the proposed concentration, impact of long range planning, faculty work load, and budget analysis:

The proposed concentration is part of the revision of the Bachelor of Science degree in Family Studies. It is a 121 degree program that meets the licensure requirements for the Prek to Grade 3 teaching license offered by the New Mexico Public Education Department. This is a new teaching license enacted in 2014. Up to now, UNM has only offered a bachelor degree in early education that led to the Birth to Grade Three teaching license which is no longer available in the state of New Mexico. This proposed concentration also addresses Senate Bill 239, which enacted a reduction in general education requirements for all teachers in New Mexico. This act becomes effective in 2016. In addition this new concentration also is part of the comprehensive revision of all teacher preparation programs in the College of Education in order to better prepare its graduates in the areas of cultural and linguistic diversity, assessment, and for working with children with diverse abilities.

Please see Executive Summary for the proposed revision of the Bachelor of Science in Family Studies for the detailed budget implication, two-year schedule of classes, and faculty work load implications.

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DEGREE/PROGRAM FORM C Form Numbe	₹Ad
Fields marked with * are required	
Name of Initiator: David Atencio Email: atencio1@unm.edu Phone N Associated Forms exist?* Yes ▼ Initiator's Title Faculty Contact* David Atencio Department* Individual, family, and community education Branch Main	lumber: 505 277-3757 Date: 10-15-2015 * Associate Professor: Individual Family Comm Educ I Administrative Contact* Cynthia Salas Admin Email* casalas@unm.edu Admin Phone* 277-4318
Proposed effective term Semester Fall ▼ Year 2016 ▼	
Course Info	rmation
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BS Family and Child Studies - Early of Select Category * Concentration ▼ Degree Type BS Select Action New ▼	Childhood Education & Development Concentration
Exact Title and Requirements as they should appear in the catalog. If the See current catalog for format within the respective college (upload a doc/	
4 year Degree Plan FCS-BS ECED Concentration.docx Early Childhood Education & Development Concentration.docx	
Does this change affect other departmental program/branch camp	uses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) The proposed concentration in Early Childhood Education and Developm professionals to work in fields of early childhood education and developm home visiting, and child care) that now due to state and or federal guidline development BUT NOT state licensure. This proposed ECED concentratio to 120 credits. The proposed ECED concentration for the proposed bache revision of the current Bachelor of Science degree in Family Studies.	ent, family support, and early care (e.g., Head Start, home based car is require a bachelor level degree in early education and or early in addresses the provost's request to reduce total credits for degrees
Upload a document that inlcudes justification for the program, impact of workload implications.* (upload a doc/pdf file)	on long-range planning, detailed budget analysis and faculty
ECED Statement Form C.docx	
☐ Are you proposing a new undergraduate degree or new undergrad	uate certificate? If yes, upload the following documents.
Upload a two-page Executive Summary authorized by Associate Provo	ost.* (upload a doc/pdf file)
Upload memo from Associate Provost authorizing go-ahead to full prop	posal.* (upload a doc/pdf file)
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2016-2017 Degree Plan

Family and Child Studies, BS (Early Childhood Education & Development Concentration)

College of Education: Department of Individual, Family, and Community Education (4 Year Plan)

(All required general education courses must conform to UNM core curriculum)

Term 1 Hours Towards Degree: 16	Hours	Minimum Grade	Notes
ENGL 110: Accelerated Composition or ENGL 111: Composition I and ENGL 112: Composition II or ENGL 113: Enhanced Composition	3	С	
CJ 130 or ENGL 219 or ENGL 220 or PHIL 156 or UHON 201	3	С	
FCS 105: Introduction to Family Studies	3	С	
BIOL 123 and BIOL 124L or BIOL 110 and BIOL 112L	4	С	
FCS Lower Division Elective	3	С	
Term Hours:	16		
Ferm 2 Hours Towards Degree: 31	Hours	Minimum Grade	Notes
Social & Behavioral Sciences	3	С	
STAT 145: Introduction to Statistics	3	С	
NUTR 120 or NUTR 244	3	С	
ENGL 120: Composition III	3	С	
FCS Lower Division Elective	3	С	
Term Hours:	15		
Ferm 3 Hours Towards Degree: 49	Hours	Minimum Grade	Notes
Physical or Natural Science	3	С	
FCS 312: Parent-Child Interactions	3	С	
FCS Lower Division Elective	3	С	
Humanities	3	С	
Fine Arts	3	С	
Elective	3	С	
Term Hours:	18		
Ferm 4 Hours Towards Degree: 67	Hours	Minimum Grade	Notes
Foreign Language	3	С	
Elective	3	С	
FCS 305: Research and Evaluation in Family and Child Studies	3	С	
FCS 302: Emergent Literacy	3	С	
FCS 405: Advanced Caregiving for Infants & Toddlers	3	С	
FCS Lower Division Elective	3	C	
Term Hours:	18		
Ferm 5 HoursTowardsDegree:82	Hours	Minimum Grade	Notes
FCS 401: Research in Child Growth, Development & Learning	3	С	
FCS 311: Family, Language & Culture	3	С	
FCS 316: Early Childhood Pedagogy & Curriculum	3	С	
FCS Upper Division Elective	3	С	
Elective	3	С	
Term Hours:	15		
m 6 HoursTowardsDegree: 94	Hours	Minimum Grade	
	3	С	Notes
FCS 403: Growth and Development of the Preschool Child		С	
FCS 403: Growth and Development of the Preschool Child FCS Upper Division Elective	9	C	
	9		

7 HoursTowardsDegree:108		Hours	Minimum Grade	Notes
FCS Upper Division Elective		6	С	
FCS 484: The Sociocultural Context of Children &		3	С	
Humanities		3	С	
Elective		2	С	
	Term Hours:	14		
Term 8 HoursTowardsDegree: 120		Hours	Minimum Grade	Note
FCS481: Public Policy and Advocacy in Family & Child Studies		3	c	
FCS Upper Division Elective		6	с	
Social & Behavioral Sciences		3	С	
	Term Hours:	12		

Crucial course: 10/Acrucial course is a predictor for success in obtaining this degree. It should be taken in the term indicated in order to ensure timely progress to graduation.)

Degree Plan Notes

Keep in mind that minimum grades on road map are for individual coursework only. Students must maintain a minimum of a 2.75 cumulative grade point average for admission to the CSPogramand a minimum of a 2.0 cumulative grade point average for graduation from the College of Education. Minumums listed for the individual courses do NOT meet the cumumlative minimum. For more information see the catalogue at www.unm.edu

BIOL 123 and BIOL 124L or BIOL 110 and BIOL 112Ls
BIOL 110: Biology Non-Majors
BIOL 112L: Biology Lab Non-Majors
BIOL 123: Bio for Health Related Sci
BIOL 124L: Bio-Health Sci Lab

Curriculum for ECED Concentration (69 credits)	
FCS Core (12 credits)	
FCS 105 Introduction to Family and Child Studies	3
FCS 305 Research and Evaluation in Family and Child Studies	3
FCS 481 Public Policy and Advocacy in Family and Child Studies	3
FCS 484 The Sociocultural Context of Children and Families	3
ECED Concentration Core (lower division - 12 credits)	
FCS 101 Child Growth, Development and Learning	3
FCS 102 Carpe Noctem: Sleep, Health & the Family	3
FCS 103 Health, Safety, & Nutrition	2
FCS 111 Family and Community Collaboration	3
FCS 115 Guiding Young Children	3
FCS 117 Curriculum Development through Play	3
FCS 202 Introduction to Language, Literacy, & Reading	3
FCS 203 Infant Growth and Development	3
FCS 213 Marriage and Family Relationships	3
FCS 217 Curriculum Development & Implementation Age 3 to Gr. 3	3
FCS 220 Assessment of Children & Evaluation of Programs	3
FCS 230 Professionalism	2
ECED Concentration Core (upper division - 21 credits)	
FCS 302 Emergent Literacy	3
FCS 311 Family, Language and Culture	3
FCS 312 Parent-Child Interactions	3
FCS 316 Early Childhood Pedagogy & Curriculum	3
FCS 401 Research in Child Growth, Development and Learning	3
FCS 403 Growth and Development of the Pre-School Child	3
FCS 405 Advanced Caregiving for Infants and Toddlers	3
FCS Electives (upper division - 24 credits)	
FCS 304 Growth and Development in Middle Childhood	3
FCS 310 Friends and Intimate Relationships	3
FCS 313 Family Theories and Contemporary Lifestyles	3
FCS 315 Adolescent Development in the Family	3
FCS 321 Young Children with Diverse Abilities	3
FCS 341 Ecological Aspects of Housing	3
FCS 343 Family Management Theories	3
FCS 344 Consumer Decisions	3
FCS 395 Field Experience	3
FCS 407L Pre-School Child Lab	-
FCS 411 Marriage and Family Life Education	3
FCS 412 Fathering	3
FCS 416 Adult Development in the Family	3
FCS 443 Application of Family Management Theories	3

General Education Requirements (40 credits) AREA 1: Writing and Speaking - 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130, PHIL 156, UHON 201

AREA 2: Mathematics - 3 credit hours (choose one of the following)

STAT 145, Math 129, or Math 215

GEOG 105L: Opt. Lab for GEOG 101 (1cr)

AREA 3: Physical and Natural Sciences - 7 credit hours

BIO 110/112L OR BIO 123/124L AND choose 1 additional course from the following:

ANTH 120: Arch. Method & Theory CHEM 101: Chemistry in Our Community PHYC 102: Introduction to **Physics** ANTH 122L: Req. Lab for ANTH 120 (1cr) CHEM 111L: Elem of General Chemistry (4cr) PHYC 102L: Opt. Lab for PHYC 102 (1cr) Pre-Spring 2013 ANTH 121L: Arch. M&T(4cr) PHYC 105: Physics and CHEM 121: General Chemistry I ANTH 150: Evol & Human Emergence CHEM 123L: Req. Lab for Chem 121 (1cr) PHYC 151: General Physics **ANTH 151L**: Opt. Lab for ANTH 150 (1cr) CHEM 122: General Chemistry II PHYC 151L: Opt. Lab for PHYC 151 (1cr) ANTH 160: Human Life Course CHEM 124L: Reg. Lab for Chem 122 (1cr) PHYC 152: General Physics **ANTH 161L**: Opt. Lab for ANTH 160 (1cr) CHEM 131L: (Honors) Gen. Chemistry I (4cr) PHYC 152L: Opt Lab for PHYC 152 (1cr) ASTR 101: Intro to Astronomy CHEM 132L: (Honors) Gen. Chemistry II (4cr) PHYC 160: General Physics ASTR 101L: Opt. Lab for ASTR 101 (1cr) EPS 101: Intro to Geology PHYC 160L: Opt. Lab for PHYC 160 (1cr) BIOL 110: Biology for Non-Majors EPS 105L: Opt. Lab for EPS 101 (1cr) PHYC 161: General Physics PHYC 161L: Opt. Lab for PHYC BIOL 112: Opt. Lab for BIOL 110 (1cr) EPS 201L: Earth History (4cr) ENVS 101: The Blue Planet *NTSC 261L: Physical Science (4cr) ENVS 102L: Opt. Lab for ENVS 101 *NTSC 262L: Life Science

GEOG 101: Physical Geography

*NTSC 263L: Environmental

Science (4cr)

UHON 203: Science in the 21st Century

AREA 4: Social and Behavioral Sciences – 6 credit hours. Choose 2 courses from the following:

POLS 110: The Political AFTS / CCS / NATV / SUST / WMST 109: **ECON 105**: Intro to Macroeconomics World Intro to Comparative and Global Ethnic Societies ECON 106: Intro to Microeconomics POLS 200: American Politics AMST 182: Intro to Env. Sci. & Technology CRP 181: Intro to Environmental Problems POLS 220: Comparative AMST 185: Race, Class & Ethnicity POLS 240: International ENGF 200: Technology in Society **Politics** ANTH 101: Intro to Anthropology GEOG 102: Human Geography SOC 101: Intro to Sociology ANTH 130: Cultures of the World LING 101: Intro to Linguistics UHON 204: Individual & Collective PSY 105: General Psychology

AREA 5: Humanities - 6 credit hours: Choose 2 courses from the following

AFST 104: Intro to Africana Studies	ENGL 150: Study of Literature	NATV 150: Intro to Native
American Studies		
AMST 186: Intro to Southwest Studies	ENGL 292/293: World Literatures	PHIL 101: Intro to
Philosophical Problems		
CCS 201: Intro to Chicana & Chicano Studies	GEOG 140: World Regional Geography	PHIL 201: Greek Thought
CLST 107: Greek Mythology	HIST 101/L: Western Civilization (to 1648)	PHIL 202: From Descartes to
Kant		
CLST 204: Greek Civilization	HIST 102/L: Western Civilization (from 1648)	RELG 107: Living World
Religions		
CLST 205: Roman Civilization	HIST 161/L: History of the US to 1877	RELG 263: Eastern

Religions

CLCS 223/224: Literary Questions HIST 162: History of the US since 1877 RELG 264: Western

Religions

COMP 222: Fairy and Folk Tales HIST 181: History of Early Latin America UHON - Honors Legacy Sem, 100-200

COMP 224: Literary Questions HIST 182: Modern Latin American History UHON 205: Humanities

Society & Culture MLNG 101: Languages

AREA 6: Foreign Language - 3 credit hours

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts - 3 credit hours required. Choose 1 course from the following:

ARCH 121: Intro to Architecture DANC 105: Dance Appreciation THEA 105: Intro to Theatre

Appreciation

Pre-Fall 2010 Arch 101: Intro to Architecture FA 284: Experiencing the Arts Pre-Fall 2010 THEA 122:

Theatre Appreciation

ARTH 101: Intro to Art MA 210: Intro to Film and Study UHON 207: Fine Art as Global Perspective

ARTH 201: History of Art 1 MUS 139: Music Appreciation
ARTH 202: History of Art 2 MUS 142: Rock Music Appreciation

Any 3 credit hour studio or performance course offered by the Department of Art and Art History, Music, Theatre and Dance, Media Arts or IFDM.

Additional Requirement - 3 credits hours

NUTR 120 OR 224

In addition, the student must complete unrestricted electives for a minimum total of 120 credit hours. Consult the program faculty for specific courses. The student must complete 40 hours above 300.

Department of Individual, Family & Community Education

Bachelor of Science in Family and Child Studies (Revision of the Bachelor of Science in Family Studies)

Concentration: Early Childhood Education and Development [ECED] (120 Credit Hours)

Justification of the proposed concentration, impact of long range planning, faculty work load, and budget analysis:

The proposed concentration is part of the revision of the Bachelor of Science degree in Family Studies. It is a 120 degree program that meets the strong need in the state to allow professionals working in family support, early care, and early education to complete a non licensure bachelor degree program in early education. UNM has only offered a bachelor degree in early education that leads to state licensure and therefore requires its majors to complete one full semester of student teaching. Head Start employees, early care providers, home visitors do not require state teaching license but do require completion of a bachelor degree in early education and development.

Please see Executive Summary for the proposed revision of the Bachelor of Science in Family Studies for the detailed budget implication, two year schedule of classes, and faculty work load implications.

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DEGREE/PROGRAM CHANGE
FORM C Form Number: C1726
Fields marked with * are required
Name of Initiator: Shoshana Handel Email: shandel@unm.edu Phone Number: 505 277-2501 Date: 10-23-2015
Associated Forms exist?* No ■ Initiator's Title* Coordinator, Grad Academic Advisement: Dept of Soc
Faculty Contact* Christopher Lyons & Administrative Contact* Shoshana Handel
Department* Sociology Admin Email* shandel@unm.edu
Branch Admin Phone* 277-2501
Proposed effective term
Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Graduate Degree Program ▼
Name of New or Existing Program* PhD Sociology
Select Category * Degree ▼ Degree Type PhD
Select Action Revision ▼
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)
FA16 GRAD CAT.pdf
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) The attached proposal was unanimously passed by the Sociology Faculty on Oct.2, 2015. It describes in detail the reason and rational for request.
QUAL REQ.pdf
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
Budget_Qual.docx
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)
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Current Catalog:

Specific requirements for all students seeking a Ph.D. in Sociology include (all required courses must be passed with at least a grade of "B-"):

- SOC 500 Classical Social Theory;
- One of the following courses in Contemporary Theory: SOC 513 Constructing and Analyzing Contemporary Sociological Theory; OR SOC 514 20th Century European Theory;
- SOC 523 Proseminar (students should take this course as early in their careers as possible);
- SOC 580 Methods of Social Research I;
- SOC 581 Advanced Social Statistics I:
- SOC 582 Advanced Social Statistics II; and another quantitative or qualitative methods course approved by the Graduate Advisor;
- SOC 699 Dissertation (18 credit hours);
- Comprehensive Examinations (written and oral);

Ph.D. dissertation and passing the Final Examination for Doctorate.

Proposed Change:

Specific requirements for all students seeking a Ph.D. in Sociology include (all required courses must be passed with at least a grade of "B-"):

- SOC 500 Classical Social Theory;
- One of the following courses in Contemporary Theory: SOC 513 Constructing and Analyzing Contemporary Sociological Theory; OR SOC 514 20th Century European Theory;
- SOC 523 Proseminar (students should take this course as early in their careers as possible);
- SOC 580 Methods of Social Research I:
- SOC 581 Advanced Social Statistics I;
- SOC 582 Advanced Social Statistics II; and another quantitative or qualitative methods course approved by the Graduate Advisor;
- SOC 585 Sociological Fieldwork Methods: Ethnography, Interviews, Focus Groups;
- SOC 699 Dissertation (18 credit hours);
- Comprehensive Examinations (written and oral);

Ph.D. dissertation and passing the Final Examination for Doctorate.

Recommendations for required Graduate Qualitative Methods course

The Graduate Committee recommends changing the graduate curriculum to require Ph.D. students to complete a graduate level course in qualitative methods. The required course would be designed with four objectives in mind: (1) to give graduate students basic training in qualitative research, including issues of conceptualization, theory, research design, strategies for framing questions, and data analysis, (2) to provide various domains or topical areas in sociology where qualitative work has made, and continues to make, major contributions, (3) to examine the ethical responsibilities of qualitative researchers, and to (4) to train students to think critically about the forms of writing (articles, dissertations, books, etc.) and professional presentations that sociologists must master to present qualitative work to their peers and the public. The following are justifications for the change:

- 1. It is important that all graduate students have a strong foundation in both quantitative and qualitative methods so that they are well trained and have the same basic preparation regardless of the methods they choose to use in their own research projects. Because graduate students need to be able to read and evaluate work in major journals, teach courses that utilize research with various methodological approaches, and mentor students conducting diverse projects, qualitative training is essential. Currently, graduate students are trained rigorously in quantitative methods regardless of whether they intend to work on quantitative projects. The lack of a qualitative methods requirement leaves a serious gap in students' graduate education, leaving them unprepared to tackle ambitious qualitative and mixed-methods projects. It also limits the kinds of projects they might consider or conduct in the future.
- 2. Qualitative work requires a unique set of skills and knowledge that, like statistics, cannot be learned intuitively without training. It must be taught rigorously. Although the basics of research design apply to both quantitative and qualitative approaches, there are issues that are unique to qualitative projects that must be mastered, including how to choose and justify cases, how to think about causality and causal mechanisms, how to design effective interview instruments, how to code data and use qualitative coding software (among many other issues). Having a solid research design is the key to any good research project; it is very difficult with qualitative research, however, to correct problems once fieldwork has begun and nearly impossible once it is completed. Having a strong foundation in qualitative methods will allow graduate students to conduct projects that are well designed from the beginning, and to troubleshoot potential problems (e.g., selecting cases on the dependent variable) that could undermine a project before they enter the field.
- 3. A department's curriculum reflects what it deems the essential components of a graduate education. Required courses send a signal about what a department values. Requiring a qualitative methods course reinforces the department's commitment to strong and rigorous research of all kinds.
- 4. Requiring a graduate qualitative methods course would make our curriculum consistent with peer institutions, and the top sociology departments, most of which require graduate qualitative methods courses.
- 5. The ethical considerations of qualitative research are unique and all graduate students should be exposed to them at the beginning of their graduate careers. Unlike researchers who utilize pre-existing quantitative data sets, researchers engaged in qualitative work often have close contact with research participants and are held to high standards of ethical responsibility within the discipline and by university institutional review boards (IRBs). All graduate students should understand the IRB process and the ethical concerns that directly engaging participants raise.

Upload a document that includes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.

The proposed change will have no impact on department resources (budgetary or workload). The program already required that all PhD students take a fourth methodology course. This meant that faculty had to offer a methodology course as part of their regular teaching load. The new requirement of a specific (SOC 585) course was discussed in detail at the faculty meeting and it was agreed that there are an adequate number of faculty who are qualified to teach the course, and that it can easily fit into their teaching rotation.

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Form Number: C1747
Fields marked with * are required
Name of Initiator: Naomi Shin Email: naomishin@unm.edu Phone Number: 505 277-6353 Date: 10-28-2015
Associated Forms exist?* No ▼ Initiator's Title* Assistant Professor: Linguistics Department
Faculty Contact* Naomi Shin Administrative Contact* Martha Hurd
Department* Spanish & Portuguese Admin Email* marthah@unm.edu
Branch Admin Phone* 5052772974
Proposed effective term
Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Graduate Degree Program ▼
Name of New or Existing Program* MA Spanish- Hispanic Linguistics Concentration
Select Category * Degree Type MA
Select Action Revision ▼
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)
2016_HispLingMAChanges.docx
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) To make our number of required credits consistent with other Span/Port MA programs. For example, Hispanic Literature requires "18 credit hours of Hispanic Literature "
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
2016_HispLingChangesJustification.docx
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)
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Currently says:

Concentration in Hispanic Linguistics

- 21 credit hours in Hispanic Linguistics (teaching methodology class, e.g., SPAN 541, may not be included).
- 3 credit hours of Hispanic Literature.
- 3 credit hours of Portuguese or Hispanic Southwest Studies.
- 6 credit hours of electives or of thesis.

All Spanish course work counted toward M.A. credit requirements must be in courses approved by the Department at the 500-level or above with the exception of SPAN *423 (Cervantes' Quijote), and SPAN *438 (Mexican Literature). Relevant electives outside the Department may be taken only if pre-approved by the departmental Graduate Committee.

New wording:

Concentration in Hispanic Linguistics

- 18 credit hours in Hispanic Linguistics (teaching methodology class, e.g., SPAN 541, may not be included).
- 6 credit hours of Hispanic Literature or Portuguese or Hispanic Southwest Studies.
- 6 credit hours of electives or of thesis.

All Spanish course work counted toward M.A. credit requirements must be in courses approved by the Department at the 500-level or above with the exception of SPAN *423 (Cervantes' Quijote), and SPAN *438 (Mexican Literature). Relevant electives outside the Department may be taken only if pre-approved by the departmental Graduate Committee.

Justification.

Note that the changes requested have no impact on departmental budgets, faculty workload, or long-range planning.

1. We are requesting that we **reduce the number of credits** of Hispanic Linguistics courses required in our Hispanic Linguistics MA program from 21 to 18.

The reason for this is that other MA programs in Spanish & Portuguese require 18 credits, such as Hispanic Literature (see catalog, which says: "Concentration in Hispanic Literature 18 credit hours of Hispanic Literature evenly divided between Spanish American and Peninsular Spanish courses. SPAN 601 (Literary Theory) may be included." Note, too, that Southwest Spanish requires 12 credit hours of courses in Southwest Spanish. In other words, by reducing the number of Hispanic Linguistics credit hours required, we are making our program more in line with the other programs and we build in a little more flexibility for our students. By increasing the flexibility for our students we make our MA program more desirable to students who may wish to experience a more interdisciplinary program. Given that there is a large push to increase interdisciplinary work, this is in line with a general trend across the United States.

- 2. We are also requesting a minor in terms of the 6 credit hours that Hispanic Linguistics students need to take in other Span/Port Programs. Currently our students must take the following:
- 3 credit hours of Hispanic Literature. AND
- 3 credit hours of Portuguese or Hispanic Southwest Studies.

It was suggested to us in a Span/Port faculty meeting that this be changed to: 6 credits of Hispanic Literature or Portuguese or Hispanic Southwest Studies. The reason for this was to again build in more flexibility. For example, perhaps a student in Hispanic Linguistics will want to have a secondary area of scholarship in Portuguese, our new distribution of credits will allow that student to take more courses in Portuguese (likewise for Hispanic Literature or

Southwest Studies).

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Name of Initiator: John David Quale
Proposed effective term Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BAA - Design Studies Concentration (NEW) Select Category * Concentration ▼ Degree Type BAA Select Action New ▼
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)
BAA curriculum Design Studies concentration FINAL.xlsx
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) This does not impact other departmental programs or branch campuses. See description attached below. [REGISTRAR'S NOTE TO VAL: SE COMMENTS.]
BAA Design Studies Concentration.pdf
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
BAA Design Studies Concentration.pdf
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Bachelor	of Arts in Architecture (BAA): Design Studies Concentration	
	ourses are shown in suggested location, but they may be taken in other semesters. Design Stu	dies
	take any additional architecture course requirements as long as they have the prerequisities.	
FIRST YEAR		
ARCH 111	Introduction to Architectural Graphics	3
ARCH 121	Introduction to Architecture	,
MATH	UNM Core Physical & Natural Sciences - 1 course and 1 lab UNM Core Math - 1 course	2
ENGL	UNM Core Writing and Speaking - ENGL 110 or ENGL 112 or ENGL 113 Composition	3
LINGL	Total	
FIRST YEAR		- 10
ARCH 109	Design Fundamentals	3
	UNM Core Social & Behavorial Sciences - 1 course	(
	UNM Core Humanities - 1 course	3
ENGL 120	UNM Core Writing and Speaking - Composition 3	3
ARCH 133	Physics & Math for Designers	3
	Total	15
	1st Year Minimum Total	31
SECOND YE	<u> </u>	
ARCH 201	Architectural Design I	5
ARCH 472 ARCH 223	Architectural Visualization * World Architecture I	3
ARCH 223	Sustainability I	3
ARCIT 233	UNM Core Physical & Natural Sciences - 1 course	3
	Total	15
SECOND YE		
ARCH 202	Architectural Design II	5
ARCH 472	Architectural Visualization *	1
ARCH 224	World Architecture II	3
ARCH 251	Design Thinking	3
	UNM Core Social & Behavorial Sciences - 1 course	3
	Total	15
	2nd Year Minimum Total	30
THIRD YEAR		_
ARCH 301	Architectural Design III Architectural Visualization *	5
ARCH 472 ARCH 332	Architectural Visualization Architectural Structures I	3
ARCH 332	Electives	3
	UNM Core Writing and Speaking -1 course	3
	Total	15
THIRD YEAR		
ARCH 302	Architectural Design IV	5
ARCH 323	Architecture and Context	3
ARCH 324	Architectural Theory	3
	Elective** Digital Media course recommended	3
	Total	14
	3rd Year Minimum Total	29
FOURTH YE		
	Courses selected from list of Design Electives (including interior design, industrial design,	6
	fabrication, furniture design, product design, graphic design, digital media, others as	
	offered) or Architectural Visualization Electives	
	open electives	3
	UNM Core Humanities - 1 course UNM Core Foreign Language - 1 course	3
	Orani Core i Oreign Language - i Course	15
FOURTH YE	AR SPRING	1
ARCH 450	Design Leadership	3
	open electives	12
	Total	15
	4th Year Minimum Total	
	GRAND TOTAL	120
*BAA student	s can take these Architectural Vizualization classes from among any of the 1 or 2 credit ARCH	

Bachelor of Arts in Architecture (BAA) Design Studies Concentration PROPOSED

Approximately 25% to 30% of our BAA students choose not to pursue a career in a conventional architectural practice. Many of them are deeply interested in design, but not necessarily interested in becoming a licensed architect. We already offer courses in interior design, industrial design, digital media, digital and conventional fabrication, furniture design, and various aspects of visualization ranging from 3D modeling software to graphic design for architectural presentations.

Because these courses are already offered as required and elective courses for our BAA, Master of Architecture (MArch) and Master of Science in Architecture (MSArch) students, the Architecture faculty recently voted unanimously to approve a concentration in Design Studies. The concentration will be offered as an alternative for BAA students -- the other choice will be a concentration in Pre-Professional Architecture. The Pre-Professional Architecture Concentration will appeal to those students who want to pursue an accredited Master of Architecture (MArch) degree, such as the one we offer at UNM. An MArch is required to be able to take the licensing exam in New Mexico, and most other states.

The students in the Design Studies Concentration will take the same courses for the first two years of their degree, but as they get into the 3rd year, they will have more choices. The 3rd year is when the Pre-Professional Concentration moves into more technically-oriented courses to prepare them for the MArch. In recent years, several students have complained that they don't want to take these more strictly architectural courses, and would prefer more freedom.

Some of the alternative career paths that our BAA alumni have chosen include: video game design, landscape architecture, theme park design, art, graphic design, digital media development, urban design, web design, 3D modeling software development, energy modeling, sustainability consulting (include LEED certification consulting), construction management, real estate development, and more.

The Director of the Master of Landscape Architecture (MLA) program in the School of Architecture + Planning has already prepared a list of classes that our Design Studies students can pursue and receive advanced standing in the MLA degree program. We expect our Design Studies graduates to move directly into alternative careers, or receive advanced standing in graduate programs that align with their ultimate career trajectory.

We feel it is our responsibility to offer a positive choice to these students. It does not serve them well to feel marginalized in the BAA. In fact, some of our very best designers are likely to choose the Design Studies concentration. Other universities, such as the University of Michigan, the University of California – Berkeley, and the University of Virginia have similar tracks or concentrations.

Some have even gone so far as to create a separate degree. We do not feel comfortable pursuing a separate degree at this point because we want to experiment with this concentration for three to five years. We want to see if this increases the enrollment in the BAA, and if there are any difficulties that emerge in the administration of the concentration. If strong enrollment is found in specific courses, such as 3D modeling, interior design or urban design (fields closely related to architecture) we may consider establishing separate degrees in those fields.

Implications on Faculty Load and / or Budget:

We do not expect to immediately hire any additional faculty above and beyond those we have teaching full-time or part-time at this time. We currently offer these courses, and within our current resources, we will be able to operate this concentration. It is likely we will use some of the current part-time faculty funding to hire someone to teach a couple of design studios that will be available to both Design Studies and Pre-Professional Architecture concentration students. However, if enrollment does grow, we can imagine the possibility of hiring additional full-time or part-time faculty to support the courses.

Students in the Design Studies Concentration are required to prepare a plan of study with proposed coursework connected to their interests in design. It must be approved by a faculty advisor that they select, and also by the Architecture Director. A Senior Project is an option for these students, but it must also be approved by a faculty advisor and the Director. The faculty members that are asked to serve as an advisor have minimum load impact, unless the student also chooses to pursue a Senior Project. In that case, the faculty load policy will treat that advising role in the same way a faculty member advises a student pursuing a Masters Project or a Masters Thesis.

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Fields marked with * are required
Name of Initiator: John David Quale Email: quale@unm.edu Phone Number: 505 277-1199 Date: 10-31-2015 Associated Forms exist?* Yes ▼ Initiator's Title* Professor: SAAP Architecture Program Faculty Contact* John Quale Administrative Contact* John Quale Department* Architecture Admin Email* quale@unm.edu Branch Admin Phone* 505-277-1199
Proposed effective term Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BAA Pre-Professional Concentration (NEW) Select Category * Concentration ▼ Degree Type undergraduate Select Action New ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change uplead surrent and proposed requirements *
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)
BAA Pre-Professional Architecture Concentration FINAL.xlsx
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) no [REGISTRAR'S NOTE TO VAL: SEE COMMENTS.]
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
BAA Pre-Professional Architecture Concentration.pdf
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.
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Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)
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	of Arts in Architecture (BAA) nal Architecture Concentration	Pre-
	purses are shown in suggested location, but they may be taken in other semesters.	
FIRST YEAR		
ARCH 111	Introduction Architectural Graphics	3
ARCH 121	Introduction to Architecture	3
	UNM Core Physical & Natural Sciences - 1 course and 1 lab	4
MATH	UNM Core Math - 1 course	3
ENGL	UNM Core Writing and Speaking - ENGL 110 or ENGL 112 or ENGL 113 Composition	3 16
FIRST YEAR	SPRING	10
ARCH 109	Design Fundamentals	3
	UNM Core Social & Behavorial Sciences - 1 course	3 3
	UNM Core Humanities - 1 course	3
ENGL 120	UNM Core Writing and Speaking - Composition 3	3
ARCH 133	Physics & Math for Designers	3 15
	1st Year Minimum Total	
SECOND YE		31
ARCH 201	Architectural Design I	5
ARCH 472	Design Visualization *	1
ARCH 223	World Architecture I	3
ARCH 233	Sustainability I	3
	UNM Core Physical & Natural Sciences - 1 course	3 15
SECOND YE	Total	15
ARCH 202	Architectural Design II	5
ARCH 472	Design Visualization *	1
ARCH 224	World Architecture II	3
ARCH 251	Design Thinking	3
	UNM Core Social & Behavorial Sciences - 1 course	3
	Total	15
THIRD YEAR	2nd Year Minimum Total	30
ARCH 301	Architectural Design III	5
ARCH 472	Design Visualization *	1
ARCH 332	Architectural Structures I	3
ARCH 331	Construction I	3
	UNM Core Writing and Speaking -1 course	3
	Total	15
THIRD YEAR		_
ARCH 302 ARCH 323	Architectural Design IV Architecture and Context	3
ARCH 324	Architectural Theory	5 3 3
ARCH 333	Architectural Structures II; recommended for future Track 2 MArch students (or elective)	3
	Total	14
	3rd Year Minimum Total	29
FOURTH YE		
ARCH 401	Architectural Design V	6
ARCH 433	Sustainability II; recommended for future Track 2 MArch students (or elective) UNM Core Humanities - 1 course	3
	UNM Core Foreign Language - 1 course	3
	Total	
FOURTH YE		
ARCH 402	Architectural Design VI	6
ARCH 450	Design Leadership	
	Non-Architectural Elective	3 3 3
	Non-Architectural Elective	
	Total	15
	4th Year Minimum Total	30
	GRAND TOTAL	120

options anytime during their curriculum.

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Fields marked with * are required
Name of Initiator: Colleen Sheinberg
Proposed effective term Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* Bachelor of Music, Theory and Composition Concentration Select Category * Concentration ▼ Degree Type undergraduate Select Action Revision ▼
Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)
BM Th:Comp Catalog Text.pdf
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) See attached document.
BM Th:Comp Reasons.pdf
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
BM Th:Comp Impact.pdf
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.
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Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)
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Supplement to Form C: Bachelor of Music, Theory and Composition Concentration Current and Revised Catalog Text

[Current text]:

1. Core Curriculum (37 hrs)....

2. Concentration Curriculum as follows (91 –97 hrs):....

Theory and Composition Concentration

- a. six semesters of MUS 101 Concert Music with a grade of CR;
- b. 5 hours of applied music in the principal instrument;
- 23 hours in music theory, including 150, 150L, 152, 152L, 250, 250L, 252, 252L, either 405 or 406, 309 and 325.
- d. 12 hours in composition, including 254, 305, 306, 453, 4 hours of Applied Music in Composition (APMS 319 and 320), and APMS 491 Senior Recital with a grade of CR;
- e. 12 hours in music history, including 361, 362, 416, and 3 hours chosen from 413, 414, 415 or 437;
- f. 4 hours in conducting, including 363 and 365;
- g. 6 hours in ensemble (see Ensemble Requirements for specific requirements);
- h. 4 hours in technology, including 311 and 412;
- 3 hours selected from any courses listed under Ethnomusicology, or MUSE 293;
- j. MUS 214 Piano Proficiency with a grade of CR;
- k. 5 hours of electives in Music, Applied Music or Music Education;
- 6 hours of electives, including 3 hours in the College of Fine Arts, and not including courses in Music, Applied Music or Music Education.
- m. 11 hours of electives in the focus area (composition, theory or technology), to be selected from the following courses:
 - up to 3 additional hours of Applied Music in Composition (APMS 419, 420);
 - 380 Recording Techniques I
 - 2 additional hours of Counterpoint (405 or 406);
 - 407 Selected Topics in Music Composition
 - 421 Introduction to Max Programming for Musicians
 - up to 6 hours of 439 *Selected Topics in Music Theory;*
 - 481 Recording Techniques II
 - IFDM 491 Topics in Film & Digital Media

Subtotal 91 Total 128

[Revised text]:

1. Core Curriculum (37 hrs)....

2. Concentration Curriculum as follows (91 –97 hrs):....

Theory and Composition Concentration

- a. six semesters of MUS 101 Concert Music with a grade of CR;
- b. 5 hours of applied music in the principal instrument;
- c. 23 hours in music theory, including 150, 150L, 152, 152L, 250, 250L, 252, 252L, either 405 or 406, 309 and 325.
- d. 12 hours in composition, including 254, 305, 306, 453, 4 hours of Applied Music in Composition (APMS 319 and 320), and APMS 491 *Senior Recital* with a grade of CR;
- e. 12 hours in music history, including 361, 362, 416, and 3 hours chosen from 413, 414, 415 or 437;
- f. 4 hours in conducting, including 363 and 365;
- g. 6 hours in ensemble (see Ensemble Requirements for specific requirements);
- h. 4 hours in technology, including 311 and 412;
- i. 3 hours selected from any courses listed under Ethnomusicology, or MUSE 293;
- j. MUS 214 Piano Proficiency with a grade of CR;
- k. MUS 314 *Theory and Composition Keyboard Proficiency* with a grade of CR;
- [1.] 5 hours of electives in Music, Applied Music or Music Education;
- [m.] 6 hours of electives, including 3 hours in the College of Fine Arts, and not including courses in Music, Applied Music or Music Education.
- [n.] 11 hours of electives in the focus area (composition, theory or technology), to be selected from the following courses:
 - up to 3 additional hours of Applied Music in Composition (APMS 419, 420);
 - 380 Recording Techniques I
 - 2 additional hours of Counterpoint (405 or 406);
 - 407 Selected Topics in Music Composition
 - 421 Introduction to Max Programming for Musicians
 - up to 6 hours of 439 Selected Topics in Music Theory;
 - 481 Recording Techniques II
 - IFDM 491 Topics in Film & Digital Media

Subtotal	91
Total	128

Supplement to Form C for Bachelor of Music, Concentration in Theory & Composition

Reasons for Request

In Section 2 ("Concentration Curriculum"), the addition of MUS 314 as item k. in the list of requirements is being made in order to provide transcript evidence of the currently existing keyboard skills requirement for Bachelor of Music Theory and Composition majors. At the request of the College of Fine Arts Advisement Office, the creation of MUS 314 will allow better tracking of students' completion of this requirement. A Form B is being submitted to create MUS 314 as a new course number.

Form C Bachelor of Music, Concentration in Theory and Composition

Justification, Impact on Long-Range Planning, Budget/Load

Justification

This course is being instituted in order to provide transcript evidence of the currently existing keyboard skills requirement for Bachelor of Music Theory and Composition majors. At the request of the College of Fine Arts Advisement Office, the creation of MUS 314 will allow better tracking of students' completion of this requirement.

Impact on Long-Range Planning

The Music area is committed to continually improving and updating its programs as needed in order to provide quality degrees in the field of music.

Budget/Faculty Load

There will be no additions to faculty workload and therefore no budgetary changes as a result of the creation of MUS 314. The keyboard skills that comprise the course content are already being assessed by theory and composition faculty as part of their regular loads. MUS 314 merely formalizes the process for tracking purposes.

3/22/2016 AutoCurric Form C

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Course Information	
Select Appropriate Program* Undergraduate Degree Program Name of New or Existing Program* Bachelor of Music Education, Instrumental Concentration Select Category * Concentration Degree Type undergradate Select Action Revision Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements See current catalog for format within the respective college (upload a doc/pdf file) BME Instr-Sequence.pdf BME Instr-Catalog Text Rev.pdf Does this change affect other departmental program/branch campuses? If yes, indicate below. Reason(s) for Request* (enter text below or upload a doc/pdf file) See attached document. BME Instr-Reasons.pdf	
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and facul workload implications.* (upload a doc/pdf file)	ıy
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Supplement to Form C: Bachelor of Music Education, Instrumental Concentration Current and Revised Catalog Text

[Current text]:

Instrumental Concentration

Includes emphases in strings, wind, percussion, piano or guitar.

1. General Education

- a. 12 hours of English, including 3 hours of English literature elective and the following courses:
 ENGL 101 Composition I: Exposition
 ENGL 102 Composition II: Analysis & Argument and one of the following:
 CJ 130 Public Speaking
 CJ 220 Communication for Teachers
- b. 6 hours of electives in mathematics, to be selected from the list of courses under College of Fine Arts Graduation Requirements and from MATH 111 Mathematics for Elementary and Middle School Teachers. NOTE: MATH 101, 102 and 103 cannot fulfill this requirement.
- c. 12 hours in science, including PHYC 108
 Introduction to Musical Acoustics, PHYC 108L
 Musical Acoustics Laboratory, and 8 hours of electives, to be selected from the list of courses in Physical and Natural Sciences under College of Fine Arts Graduation Requirements
- d. 6 hours in Social and Behavioral Sciences, including PSY 105 General Psychology and PSY 220 Developmental Psychology
- e. 12 hours in general history, including:
 HIST 101 Western Civilization
 HIST 102 Western Civilization
 HIST 161L History of the United States to 1877
 HIST 162L History of the United States Since 1877
- f. 6 hours of electives in Fine Arts, to be selected from Art History, Art Studio, Theatre, Dance or Media Arts:
- g. 3 hours in foreign language (see CFA Graduation Requirements)
- h. 2 hours of electives in any area, including music (for string emphasis only)

Subtotal for String Emphasis	59
Subtotal for Wind, Percussion, Piano or	
Guitar Emphasis	57

[Revised text]:

Instrumental Concentration

Includes emphases in strings, wind, percussion, piano or guitar. [NOTE: A student's emphasis is determined by his or her principal instrument; however, for a piano or guitar emphasis, the student must also be proficient in a secondary instrument (strings, wind or percussion).]

1. General Education

- [a. 9 hours of English, including the following: ENGL 110 (or ENGL 112 or ENGL 113); ENGL 120; one additional course chosen from ENGL 219, ENGL 220, CJ 130, PHIL 156, UHON 201
- 6 hours of electives in mathematics, incuding 3 hours of math elective and 3 hours to be selected from the list of courses under College of Fine Arts Graduation Requirements.
- c. 8 hours in science, including PHYC 108

 Introduction to Musical Acoustics, PHYC 108L

 Musical Acoustics Laboratory, and 4 hours of electives to be selected from the list of courses in Physical and Natural Sciences under College of Fine Arts Graduation Requirements.
- d. 9 hours in Social and Behavioral Sciences, including PSY 105 General Psychology and EDPY 303 Human Growth and Development and 3 hours of electives to be selected from the list of courses in Social and Behavioral Sciences under College of Fine Arts Graduation Requirements
- e. 6 hours of electives in humanities, to be selected from the list of courses in Humanities under College of Fine Arts Graduation Requirements
- f. 3 hours of electives in Fine Arts, to be selected from Art History, Art Studio, Theatre, Dance or Media Arts:1
- g. 3 hours in foreign language (see CFA Graduation Requirements)
- h. 2 hours of electives in any area, including music (for string emphasis only)

Subtotal for String Emphasis	[46]
Subtotal for Wind, Percussion, Piano or	
Guitar Emphasis	[44]

2. Teaching Field: Music

- a. four semesters of MUS 101 Concert Music with a grade of CR;
- b. 7 hours of applied music in the principal instrument (voice, piano or guitar), including APMS 119, 120, 219, 220, 319, 320, 419 and 491;
- c. 18 hours in music theory, including MUS 150, 150L, 152, 152L, 250, 250L, 252, 252L and 453;
- d. 6 hours in music history (MUS 361 and 362)
- e. 2 hours in conducting (MUSE 363);
- f. 1 hour of improvisation (MUS 236);
- g. 3 hours selected from any courses listed under Ethnomusicology, or Mus Ed 293;
- h. MUS 214 Piano Proficiency with a grade of CR;
- 2 hours vocal study, including 1 hour in either MUS 109 or APMS 119 (Voice) and 1 hour of either MUS 143 or or MUSE 242 or MUSE 243.

Subtotal 39

3. Professional Education: Music Education

- a. 7 hours in ensemble (see Ensemble Requirements for specific requirements)
- b. 8 hours in MUSE Orchestral Instruments
- c. 14 to 17 hours in music education methods, including:

MUSE 195	Introductory Teaching Practicum
MUSE 215	Instrumental Lab (2 semesters with a
	grade of CR),
MUSE 315	Instrumental Music Methods
MUSE 317	Jazz Methods (not required for

1

3

1

2

3

1

3

3

1

3

MUSE 441	Marching Band Methods (not
	required for string emphasis)

string emphasis)

- MUSE 346 Teaching Music in the Elementary Schools
 MUSE 415 Instrumental Repertory
 MUSE 446 Secondary School Music
- MUSE 455 Teaching Reading in the Music Classroom
- d. 4 hours in foundations, including:
 - MUSE 194 Introduction to Music Education MUSE 357 Foundations of Musical Behavior
- e. 6 hours in student teaching, including: MUSE 400 Student Teaching in the
 - MUSE 400 Student Teaching in the Elementary
 Schools (with grade of B or higher)
 MUSE 461 Student Teaching in the Secondary
 Schools (with grade of B or higher)
- Subtotal for String Emphasis
 Subtotal for Wind, Percussion, Piano or
 Guitar Emphasis
 42

Total for String Emphasis	137
Total for Wind, Percussion, Piano or	
Guitar Emphasis	138

2. Teaching Field: Music

- a. four semesters of MUS 101 Concert Music with a grade of CR;
- 7 hours of applied music in the principal instrument (voice, piano or guitar), including APMS 119, 120, 219, 220, 319, 320, 419 and 491;
- c. 18 hours in music theory, including MUS 150, 150L, 152, 152L, 250, 250L, 252, 252L and 453;
- d. 6 hours in music history (MUS 361 and 362)
- e. 2 hours in conducting (MUSE 363);
- f. 1 hour of improvisation (MUS 236);
- [g.] MUS 214 Piano Proficiency with a grade of CR;
- [h.] 2 hours vocal study, [including 1 hour in a major choral ensemble and 1 hour in either MUS 109 or APMS 119 (Voice) or a major choral ensemble.]

Subtotal [36]

3. Professional Education: Music Education

- a. 7 hours in ensemble (see Ensemble Requirements for specific requirements)
- b. 8 hours in MUSE Orchestral Instruments
- c. [15 to 18] hours in music education methods, including:

	MUSE 195	Introductory Teaching Practicum	1
	[MUSE 216	Music Education Lab (3 semesters	
		with a grade of CR),]	
	MUSE 315	Instrumental Music Methods	3
	MUSE 317	Jazz Methods (not required for	
		string emphasis)	1
	[MUSE 390	Pre-Student Teaching Internship	1]
	MUSE 441	Marching Band Methods (not	
		required for string emphasis)	2
	MUSE 346	Teaching Music in the Elementary	
		Schools	3
	MUSE 415	Instrumental Repertory	1
	MUSE 446	Secondary School Music	3
	MUSE 455	Teaching Reading in the Music	
		Classroom	3
d.	[7] hours in foundations, including:		
	MUSE 194	Introduction to Music Education	1
	MUSE 357	Foundations of Musical Behavior	3
	[MUSE 477	Diversity in Music Education	3]

MUSE 400 Student Teaching in the Elementary
Schools (with grade of B or higher) 3
MUSE 461 Student Teaching in the Secondary
Schools (with grade of B or higher) 3

6 hours in student teaching, including:

Subtotal for String Emphasis	[43]
Subtotal for Wind, Percussion, Piano or	
Guitar Emphasis	[46]

Total for String Emphasis	[125]
Total for Wind, Percussion, Piano or	
Guitar Emphasis	[126

Supplement to Form C for Bachelor of Music Education, Instrumental Concentration

Reasons for Request

In the preliminary description of the concentration, a note is being added to specify the requirement for piano or guitar emphasis students to have some proficiency in a secondary instrument. This language does not constitute a change to the degree, but is rather a clarification of the way the concentration currently works. As part of the existing requirements for the Instrumental Concentration, students must participate in major ensembles (orchestra or band). Since piano and guitar are not usual orchestral or band instruments, the student must therefore play an instrument that will qualify him or her for participation in these ensembles.

In section 1 "General Education," the various changes for English, math, science, social and behavioral sciences, humanities and fine arts are being made because of changes in the university core and in requirements mandated for teacher certification by the New Mexico Public Education Department.

In Section 2 "Teaching Field: Music," item g. (the ethnomusicology requirement) is being deleted, and will be replaced in Section 3d by a new course, MUSE 477 *Diversity in Music Education*. The content of MUSE 477 will include how to teach multicultural music in the classroom.

In Section 2 "Teaching Field: Music," item i. will now appear as item h. and will allow a student to fulfill both of his or her required vocal study hours by participation in choir if desired. The current plan specifies that one of the hours must be in Group Voice class or Applied Voice (private lessons). The change will give the student greater flexibility in choosing courses to fulfill the degree requirements.

In Section 3 "Professional Education: Music Education," in item c., the requirement for 2 semesters of MUSE 215 Instrumental Lab is being deleted and will be replaced by 3 semesters of a new course—MUSE 216 Music Education Lab. MUSE 216 will offer Music Education students more opportunities to teach prior to taking the formal Student Teaching courses (MUSE 400 and MUSE 461). It will replace the existing MUSE 213 Choral Lab and MUSE 215 Instrumental Lab in order to give students experience in more varied music teaching settings. Currently, students take either Instrumental Lab or Choral Lab depending upon their emphasis within the field; as a result, instrumental students never encounter the problems of teaching chorus and choral students never get introduced to instrumental ensemble teaching situations. Having a combined lab course will bring our program more in line with the scope of the New Mexico music teaching licensure, which is general rather than specific. Theoretically, a music teacher licensed in New Mexico is expected to possess competency in both instrumental and choral teaching. Although in practice, most teachers specialize in either band, orchestra, chorus or general music education, it is also becoming more a fact of life for principals to expect teachers to double in more than one area. Having a Music Education Lab that combines experience in all areas will greatly increase our students' skill levels and their success rate in the field.

In Section 3 "Professional Education: Music Education," in item c., a new course is being added: MUSE 390 *Pre-Student Teaching Internship.* This course will be for 1 hour credit and is designed to give Bachelor of Music Education majors more early field experience observing and working with K-12 students in music. It will also allow students a deeper experience in a specific area of interest within the field of music education (e.g., elementary general, middle school band, high school choral). The course will be taken before the student enrolls in MUSE 400 *Student Teaching in the Elementary School* and MUSE 461 *Student Teaching in the Secondary Schools.* The most important single component of a music education degree is supervised student teaching, which is customarily done as a capstone project. The more we can prepare our students in advance for this all-important immersion experience, the better they will be prepared as they enter their profession.

Supplement to Form C for Bachelor of Music Education, Instrumental Concentration

Justification, Planning, Budget, Faculty Workload

Justification for the Concentration:

N/A. This concentration already exists.

Impact on Long-Range Planning:

The reduction in core curriculum hours is significant and will bring us much closer to the kind of reduction in degree plan hours that is being pursued by the university. While we have not been able to reduce the requirements to 120 hours and maintain the desired quality of the degree program, we will now be much closer to that number and the changes will make the Bachelor of Music Education a much more attractive degree for students who are interested in teaching music as a career.

Budget Analysis and Faculty Workload Implications

There will be no impact on budget or faculty workloads. MUSE 216 will replace the current MUSE 215. The instruction of MUSE 390 will be shared by the music education area faculty. MUSE 477 will be taught as part of that faculty member's regular load. Please see the associated Forms B for clarification.

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Supplement to Form C: Bachelor of Music Education, Vocal Concentration Current and Revised Catalog Text

[Current text]:

Vocal Concentration

Includes emphases in piano, voice or guitar.

1. General Education

- a. 12 hours of English, including 3 hours of English literature elective and the following courses:
 ENGL 101 Composition I: Exposition
 ENGL 102 Composition II: Analysis & Argument and one of the following:
 CJ 130 Public Speaking
 CJ 220 Communication for Teachers
- b. 6 hours of electives in mathematics, to be selected from the list of courses under College of Fine Arts Graduation Requirements and from MATH 111 *Mathematics for Elementary and Middle School Teachers*. NOTE: MATH 101, 102 and 103 cannot fulfill this requirement.
- c. 12 hours in science, including PHYC 108

 Introduction to Musical Acoustics, PHYC 108L

 Musical Acoustics Laboratory, and 8 hours of electives, to be selected from the list of courses in Physical and Natural Sciences under College of Fine Arts Graduation Requirements
- d. 6 hours in Social and Behavioral Sciences, including PSY 105 General Psychology and PSY 220 Developmental Psychology
- e. 12 hours in general history, including:
 HIST 101 Western Civilization
 HIST 102 Western Civilization
 HIST 161L History of the United States to 1877
 HIST 162L History of the United States Since 1877
- f. 6 hours of electives in Fine Arts, to be selected from Art History, Art Studio, Theatre, Dance or Media Arts
- g. 3 hours in foreign language (see CFA Graduation Requirements)

Subtotal 57

2. Teaching Field: Music

- a. four semesters of MUS 101 *Concert Music* with a grade of CR;
- b. 7 hours of applied music in the principal instrument (voice, piano or guitar), including APMS 119, 120, 219, 220, 319, 320, 419 and 491;
- c. 18 hours in music theory, including MUS 150, 150L, 152, 152L, 250, 250L, 252, 252L and 453;
- d. 6 hours in music history (MUS 361 and 362)
- e. 2 hours in conducting (MUSE 363);

[Revised text]:

Vocal Concentration

Includes emphases in piano, voice or guitar.

1. General Education

- [a. 9 hours of English, including the following: ENGL 110 (or ENGL 112 or ENGL 113); ENGL 120; one additional course chosen from ENGL 219, ENGL 220, CJ 130, PHIL 156, UHON 201
- 6 hours of electives in mathematics, incuding 3 hours of math elective and 3 hours to be selected from the list of courses under College of Fine Arts Graduation Requirements.
- c. 8 hours in science, including PHYC 108

 Introduction to Musical Acoustics, PHYC 108L

 Musical Acoustics Laboratory, and 4 hours of
 electives to be selected from the list of courses in
 Physical and Natural Sciences under College of Fine
 Arts Graduation Requirements.
- d. 9 hours in Social and Behavioral Sciences, including PSY 105 General Psychology and EDPY 303
 Human Growth and Development and 3 hours of electives to be selected from the list of courses in Social and Behavioral Sciences under College of Fine Arts Graduation Requirements
- e. 6 hours of electives in humanities, to be selected from the list of courses in Humanities under College of Fine Arts Graduation Requirements
- f. 3 hours of electives in Fine Arts, to be selected from Art History, Art Studio, Theatre, Dance or Media Arts:1
- g. 3 hours in foreign language (see CFA Graduation Requirements)

Subtotal [44]

2. Teaching Field: Music

- a. four semesters of MUS 101 Concert Music with a grade of CR;
- b. 7 hours of applied music in the principal instrument (voice, piano or guitar), including APMS 119, 120, 219, 220, 319, 320, 419 and 491;
- c. 18 hours in music theory, including MUS 150, 150L, 152, 152L, 250, 250L, 252, 252L and 453;
- d. 6 hours in music history (MUS 361 and 362)
- e. 2 hours in conducting (MUSE 363);

f. g.	3 hours selec	provisation (MUS 236); ted from any courses listed under			f.	1 hour of imp	provisation (MUS 236);	
Ethnomusicology, or MUSE 293; h. 2 to 4 hours in applied music in secondary instruments, as follows: Piano Emphasis: 2 hrs of 119 & 120 in voice Vocal Emphasis: 2 hrs of 119 & 120 in piano					[g.]	instruments, a Piano Empha Vocal Empha	sis: 2 hrs of 119 & 120 in voice asis: 2 hrs of 119 & 120 in piano	
		asis: 2 hrs of 119 & 120 in voice s of 119 & 120 in piano;					asis: 2 hrs of 119 & 120 in voice s of 119 & 120 in piano;	
i.		ano Proficiency with a grade of CR;			Гh.1		ano Proficiency with a grade of CR	:
j.		ction for Singers (MUS 209 & 210).			[i.]		ction for Singers (MUS 209 & 210	
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		-		,			-	. ,
a.		semble , specifically either MUSE 24	2	3.	a.		cation: Music Education semble, specifically either MUSE 2	1/2
a.		or MUSE 243 Concert Choir (see	.2		a.		or MUSE 243 Concert Choir (see	
	Ensemble Re					Ensemble Re		
b.		n MUSE Orchestral Instruments, as			b.		n MUSE Orchestral Instruments, a	S
		ocal Emphasis: 5 hours, including gur selected from brass, woodwinds or	iitar				ocal Emphasis: 5 hours, including goes selected from brass, woodwinds o	
	Guitar Emph woodwi	asis: 4 hours, selected from brass, ands or strings				Guitar Empha woodwir	asis: 4 hours, selected from brass, ands or strings	
c.		nusic education methods, including:			c.		music education methods, includin	
	MUSE 195	Introductory Teaching Practicum	1			MUSE 195	Introductory Teaching Practicum	
	MUSE 213	Choral Lab (2 semesters with a gra of CR),	ae			[MUSE 216	Music Education Lab (3 semester with a grade of CR),	
	MUSE 313	Choral Music Methods	3			MUSE 313	Choral Music Methods	0]
	MUSE 346	Teaching Music in the Elementary Schools	3			MUSE 346	Teaching Music in the Elementar Schools	
	MUSE 347	Introduction to Early Childhood Music Education	1			MUSE 347	Introduction to Early Childhood Music Education	1
	MUS 388	Music Pedagogy (in vocal pedagog				MUS 388	Music Pedagogy (in vocal pedago	ogy)
			2			DALIGE 200	D C(1 (T 1: 1 (1:	2
	MUSE 446	Secondary School Music	3			MUSE 390 MUSE 446	Pre-Student Teaching Internship	3
	MUSE 455	Teaching Reading in the Music	3			MUSE 455	Secondary School Music Teaching Reading in the Music	3
	WOSE 433	Classroom	3			WIOSE 433	Classroom	3
d.	4 hours in fo	undations, including:	J		d.	[7] hours in f	oundations, including:	
	MUSE 194	Introduction to Music Education	1			MUSE 194	Introduction to Music Education	1
	MUSE 357	Foundations of Musical Behavior	3			MUSE 357 [MUSE 477	Foundations of Musical Behavior Diversity in Music Education	3 3]
e.		ident teaching, including:			e.		ident teaching, including:	
	MUSE 400	Student Teaching in the Elementar				MUSE 400	Student Teaching in the Elementa	-
		Schools (with grade of B or higher					Schools (with grade of B or higher	
	MUSE 461	Student Teaching in the Secondary				MUSE 461	Student Teaching in the Secondar	•
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To	tal for Piano o	or Vocal Emphasis	138		Tot	tal for Piano o	or Vocal Emphasis	[126]
	tal for Guitar		139			tal for Guitar		[127]

3.

Supplement to Form C for Bachelor of Music Education, Vocal Concentration

Reasons for Request

In section 1 "General Education," the various changes for English, math, science, social and behavioral sciences, humanities and fine arts are being made because of changes in the university core and in requirements mandated for teacher certification by the New Mexico Public Education Department.

In Section 2 "Teaching Field: Music," item g. (the ethnomusicology requirement) is being deleted, and will be replaced in Section 3d. by a new course, MUSE 477 *Diversity in Music Education*. The content of MUSE 477 will include how to teach multicultural music in the classroom.

In Section 3 "Professional Education: Music Education," in item c., the requirement for 2 semesters of MUSE 213 *Choral Lab* is being deleted and will be replaced by 3 semesters of a new course—MUSE 216 *Music Education Lab*. MUSE 216 will offer Music Education students more opportunities to teach prior to taking the formal Student Teaching courses (MUSE 400 and MUSE 461). It will replace the existing MUSE 213 *Choral Lab* and MUSE 215 *Instrumental Lab* in order to give students experience in more varied music teaching settings. Currently, students take either Instrumental Lab or Choral Lab depending upon their emphasis within the field; as a result, instrumental students never encounter the problems of teaching chorus and choral students never get introduced to instrumental ensemble teaching situations. Having a combined lab course will bring our program more in line with the scope of the New Mexico music teaching licensure, which is general rather than specific. Theoretically, a music teacher licensed in New Mexico is expected to possess competency in both instrumental and choral teaching. Although in practice, most teachers specialize in either band, orchestra, chorus or general music education, it is also becoming more a fact of life for principals to expect teachers to double in more than one area. Having a Music Education Lab that combines experience in all areas will greatly increase our students' skill levels and their success rate in the field.

In Section 3 "Professional Education: Music Education," in item c., a new course is being added: MUSE 390 *Pre-Student Teaching Internship.* This course will be for 1 hour credit and is designed to give Bachelor of Music Education majors more early field experience observing and working with K-12 students in music. It will also allow students a deeper experience in a specific area of interest within the field of music education (e.g., elementary general, middle school band, high school choral). The course will be taken before the student enrolls in MUSE 400 *Student Teaching in the Elementary School* and MUSE 461 *Student Teaching in the Secondary Schools.* The most important single component of a music education degree is supervised student teaching, which is customarily done as a capstone project. The more we can prepare our students in advance for this all-important immersion experience, the better they will be prepared as they enter their profession.

Supplement to Form C for Bachelor of Music Education, Vocal Concentration

Justification, Planning, Budget, Faculty Workload

Justification for the Concentration:

N/A. This concentration already exists.

Impact on Long-Range Planning:

The reduction in core curriculum hours is significant and will bring us much closer to the kind of reduction in degree plan hours that is being pursued by the university. While we have not been able to reduce the requirements to 120 hours and maintain the desired quality of the degree program, we will now be much closer to that number and the changes will make the Bachelor of Music Education a much more attractive degree for students who are interested in teaching music as a career.

Budget Analysis and Faculty Workload Implications

There will be no impact on budget or faculty workloads. MUSE 216 will replace the current MUSE 213. The instruction of MUSE 390 will be shared by the music education area faculty. MUSE 477 will be taught as part of that faculty member's regular load. Please see the associated Forms B for clarification.

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DLGREE/FRUC	GRAM CHANGE	
FOR	M C	4
Form N	umber: C1811	
Fields marked with * are required		
Name of Initiator: Heather Canavan Email: canavan@unm.edu	Phone Number: 505 277-8026	Date: 11-02-2015
Associated Forms exist?* No ▼ Initiator's	Title* Associate Professor: Chem	Biol Engineering
Faculty Contact* Heather Canavan	Administrative Contac	t* Annette Torres
Department* Biomedical Engineering Graduate Program Admin E		nntorr@unm.edu
Branch	Admin Phone	* (505) 277-7959
Proposed effective term		
Semester Fall ▼ Year 2016 ▼		
Cours	e Information	
	~ ······	
Select Appropriate Program* Graduate Degree Program Name of New or Existing Program* MS Biomedical Engineering		
Select Category * Major ▼ Degree Type MS		
Select Action Revision ▼		
Exact Title and Requirements as they should appear in the catalog See current catalog for format within the respective college (upload a		rent and proposed requirements.*
Exact Title and Requirements BME Nov2015.docx		
Does this change affect other departmental program/branch of	campuses? If yes, indicate below	
Reason(s) for Request* (enter text below or upload a doc/pdf file) The BME Graduate Program is requesting approval of a new Plan II	II (coursework-only) MS.	
Upload a document that inlcudes justification for the program, impworkload implications.* (upload a doc/pdf file)	pact on long-range planning, deta	iled budget analysis and faculty
Justification BME Nov2015.docx		
Are you proposing a new undergraduate degree or new under	rgraduate certificate? If yes, uplo	ad the following documents.
Upload a two-page Executive Summary authorized by Associate I	Provost.* (upload a doc/pdffile)	
Upload memo from Associate Provost authorizing go-ahead to ful	II proposal.* (upload a doc/pdf file)	
	ents on this Form	
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Degree/Program Change Form C Form Number CO

Form initiated by Prof. Heather Canavan

Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.

See current catalog for format within the respective college (upload a doc/pdf file)

Changes to the Catalog's entry:

Biomedical Engineering Graduate Program

Heather E. Canavan, Director Centennial Engineering Center 2059 MSC01 1141 1 University of New Mexico Albuquerque, NM 87131-0001 (505) 277-8026

Affiliated Faculty

Kateryna Artyushkova, Chemical and Biological Engineering Plamen Atanassov, Chemical and Biological Engineering C. Jeffrey Brinker, Chemical and Biological Engineering Vince Calhoun, Electrical and Computer Engineering Heather Canavan, Chemical and Biological Engineering Thomas Caudell, Electrical and Computer Engineering Eva Chi, Chemical and Biological Engineering

Vittorio Cristini, Pathology

Elizabeth L. Dirk, Chemical and Biological Engineering

Jeremy Edwards, Chemistry, and Chemical and Biological Engineering

James P. Frever, Chemical and Biological Engineering Julia Fulghum, Chemical and Biological Engineering

Steven W. Graves, Chemical and Biological Engineering

David Grow, Mechanical Engineering, New Mexico Institute of Mining and Technology

Sang Han, Chemical and Biological Engineering

Kerry Howe, Civil Engineering

Linnea Ista, Chemical and Biological Engineering

Ravi Jain, Electrical Engineering

Zayd C. Leseman, Mechanical Engineering, and Electrical and Computer Engineering

Gabriel P. Lopez, Biomedical Engineering, Duke University

Chad Melancon, Chemistry

Diana Mercer, Orthopaedics

Meeko Oishi, Electrical and Computer Engineering

Marek Osinski, Electrical and Computer Engineering

Marios Pattichis, Electrical and Computer Engineering

Dimiter Petsev, Chemical and Biological Engineering

Christina Salas, Orthopaedics

Andrew Schuler, Civil Engineering

Andrew Shreve, Chemical and Biological Engineering

Scott S. Sibbett, Chemical and Biological Engineering

Darko Stefanovic, Computer Science

Mahmoud Reda Taha, Civil Engineering

Michaelann Tartis, Chemical Engineering, New Mexico Institute of Mining and Technology

Margaret Werner-Washburne, Biology

David Whitten, Chemical and Biological Engineering

John E. Wood, Mechanical Engineering

Steve A. Young, Pathology

Biomedical Engineering Concentration for the Ph.D. in Engineering

M.S. and Ph.D. Admission Requirements

Prospective candidates can apply directly for admission to the Ph.D. program. The Admissions Committee will make admission decisions on a case-by-case basis.

Degree Completion Requirements

The general requirements for this degree are identical to those specified in the Graduate Program section of this catalog. (Please see the <u>Graduate Program</u> section for detailed requirements and procedures common to all UNM graduate programs.) In addition to the general requirement specified in the Graduate Program, graduates must complete the core and elective BME curriculum specified below.

Degrees Offered

M.S. in Biomedical Engineering

Ph.D. in Engineering with a Concentration in Biomedical Engineering

Ph.D. and M.S. in Biomedical Engineering

The M.S. and Ph.D. programs in Biomedical Engineering prepare students for careers in solving engineering problems in health care, biomedical research, and biotechnology. Areas of current faculty research include biomaterials, nanobiotechnology, bioanalytical microsystems, patient-care devices, tissue engineering, flow cytometry, disease processes, clinical translation, and molecular and cellular systems. Instruction includes 5 core courses, a seminar and numerous electives taught by Affiliated Faculty and others within the School of Engineering, School of Medicine, College of Arts and Sciences, and College of Pharmacy.

Ph.D. and M.S. Admission Requirements

Prospective candidates may apply directly for admission to the Ph.D. program. Successful applicants to the program usually have a bachelor's degree in the physical sciences or engineering. The Admissions Committee makes admissions decisions on a case-by-case basis, with special consideration of scholastic proficiency in one or more of the following subject areas:

- Molecular and Cellular Biology
- Chemistry and Organic Chemistry
- Calculus and Ordinary Differential Equations
- Thermodynamics
- Physics
- Biochemistry or Biomolecular Engineering

Students who have not passed courses in one or more of these subject areas may be admitted to the program, but required to take undergraduate courses to address deficiencies in their background. General admission requirements described in the Graduate Program in the Catalog also apply.

Ph.D. and M.S. Application Process

Details of applying to the Ph.D. and M.S. programs are found on-line at http://bme.unm.edu. Applications to the degree program are submitted electronically at www.unm.edu/apply.

Ph.D. Degree Completion Requirements

The general requirements for the Ph.D. degree include those specified in the Graduate Program section of this catalog. In addition to these general requirements, students must also complete the BME core, Emphasis Area core, and elective BME curricula described below. BME 567 (Biomedical Engineering Seminar) must be taken every semester, up to a maximum of 8 credit hours total. Students must pass the Qualifying Examination before applying for Candidacy or proceeding to the Comprehensive Exam. Upon successfully passing the Doctoral Comprehensive Exam and successful review of their application by program faculty and the Dean of Graduate Studies, students are admitted to Candidacy for the doctoral degree. For successful completion of the program requirements, all candidates must pass a Final Examination (Defense of Dissertation).

M.S. Degree Completion Requirements

Completion requirements of a thesis-based M.S. degree (Plan I)

The minimum requirements for the thesis-based M.S. include 6 hours of thesis credit (BME 599) and 24 hours of course work that must include 18 hours of mandatory courses, as approved by the Committee on Studies, and at least 3 hours from the electives such as those listed below. Plan I automatically meets the requirement of at least 12 hours of course work at the 500 level or higher, exclusive of thesis credit, as stipulated by the UNM Catalog for this plan.

Completion requirements of a course-based M.S. degree (Plan II)

The minimum requirements of the Plan II Course-Based M.S. degree program include 32 hours of course work for credit, with at least 24 hours drawn from the list of BME required and elective courses and 3 hours of research seminar/problems course. At most, 6 hours of *400 level School of Engineering courses are allowed. Also, at least 12 hours of course work should be at a 500 level or higher, as stipulated by the Catalog for this Plan. A final exit exam is required by this degree plan, with a committee of similar makeup to those of the Plan I MS.

Completion requirements of a coursework-only M.S. degree (Plan III)

The minimum requirements of the Plan II Course-Based M.S. degree program include 30 hours of course work for credit, with at least 24 hours drawn from the list of BME required and elective courses. At most, 6 hours of *400 level School of Engineering courses are allowed. Also, at least 12 hours of course work should be at a 500 level or higher, as stipulated by the Catalog for this Plan. Seminar, thesis, and independent study (i.e., "Problems") courses are not required by this degree plan, nor is a final exit exam.

Curriculum for Students Pursuing the BME Concentration for the Ph.D. in Engineering

For all students pursuing degrees in BME, the following BME core courses are offered once per academic year:

BME 547	Biomedical Engineering Research Practices	
BME 558	Methods of Analysis in Bioengineering	
BME 567	Biomedical Engineering Seminar	

For students pursuing degrees in the emphasis area of Molecular and Cellular Systems, the following Emphasis Area Core courses are offered every other year:

BME 517	E 517 Applied Biology for Biomedical Engineers	
BME 544 Mechanics and Thermodynamics of Molecular Components in C		
BME 556	Protein and Nucleic Acid Engineering	

For students pursuing degrees in the emphasis area of Biomaterials, Biomechanics and Tissue Engineering, the following Emphasis Area Core courses are offered every other year:

BME 572	Biomaterials Engineering
BME 579	Tissue Engineering
BME 575	Biomechanics

Equivalent graduate-level courses taken at other institutions may be used to satisfy one or more of the above core requirements, as approved by the student's Graduate Advisor or Curriculum Committee.

Elective Courses

For completion of the Ph.D. degree, the student must complete a minimum of 18 credit hours of elective courses from the list below. At least 9 of these must be from courses offered in the School of Engineering. Ph.D. candidates may substitute electives other than those listed below, as approved by the student's Graduate Advisor or Curriculum Committee.

M.S. degree candidates must complete a minimum of 6 credit hours of elective courses from the lists below. M.S. candidates may substitute electives other than those listed below, as approved by the student's Graduate Advisor or Curriculum Committee.

Biomedical Engineering Electives	
BME 517	Applied Biology for Biomedical Engineers
BME 544	Mechanics and Thermodynamics of Molecular Components in Cells
BME 556	Protein and Nucleic Acid Engineering
BME 570	Physical Bioanalytical Methods
BME 572	Biomaterials Engineering
BME 579	Tissue Engineering
BME 575	Biomechanics
BME 598	Special Topics

Engineering Electives	
BIOL **351	General Microbiology
BIOL 547	Advanced Techniques in Light Microscopy
BIOM 507/BIOL 581	Advanced Molecular Biology
BIOM 508/BIOL 582	Advanced Cell Biology
BIOM 509	Principles of Neurobiology
BIOM 510	Physiology
BIOM 514	Immunobiology
BIOM 515	Cancer Biology
BIOM 516	Molecular Genetics and Genomics
CHNE/NSMS 522L	Fundamentals of Nanofluidics
CHNE/NSMS 530	Surface and Interfacial Phenomena
CHNE/NSMS 538/438	Biosensors Fundamentals and Applications
CHNE 504	Nanomaterials
CHNE 521	Advanced Transport Phenomena I
CS 529	Introduction to Machine Learning
CS 530	Geometric and Probabilistic Methods in CS
CS 561	Algorithms and Data Structures
CS 590	Topics: Complex Adaptive Systems
ECE 500	Theory of Linear Systems
ECE 510	Medical Imaging
ECE 533	Digital Image Processing
ECE 537	Foundations of Computing
ECE 539	Digital Signal Processing I

ME 501	Advanced Mechanics of Materials	
ME 504	Computational Mechanics	
ME 512	Introduction to Continuum Mechanics	
ME 530	Theoretical Fluid Mechanics I	
ME 571	Advanced Materials Science	

Degree/Program Change Form C Form Number CO

Form initiated by Prof. Heather Canavan

Upload a document that inloudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.*

Justification for the Change to the Program. The BME Graduate Program is an interdisciplinary degree program, housed within the School of Engineering rather than a single department. From its inception, the degree program was intended to have multiple emphasis areas that tailored the educational needs of students within the program, as well as the faculty participating in it. The addition of the Plan III MS will allow our faculty to streamline our degree path (and therefore faculty workload) for students enrolled in the SOE Shared Credit Program (see Faculty Workload, below). It also leaves room in case the faculty in the program decide to create an online-only degree program (see Impact on Long-range Planning, below).

The Plan III MS was proposed, discussed, voted on, and unanimously approved by the participating BME faculty on September 23, 2015. It was presented to the Department of Chemical & Biological Engineering (home department of the majority of BME faculty) on September 28, 2015, where it was again unanimously approved. Prof. Canavan indicated the program's intention to pursue the Plan III MS to Associate Dean Fleddermann at the SOE Academic Council in October 2015.

Impact on Long-range Planning. Inclusion of the Plan III MS opens up the option of a potential online-only MS program, which could be used to recruit students from around our state. It will position our program to recruit blue chip students from places like Los Alamos National Laboratory to the program, enhancing our program's reputation within the University and State. Furthermore, the increasingly vibrant educational and research environment will help the School of Engineering to recruit new faculty members to our six departments.

Detailed budget analysis. The BME graduate program is an interdisciplinary program housed within the School of Engineering, and does not have its own budget. Furthermore, the addition of the Plan III MS is not expected to impact the BME program's budget in any way.

Faculty workload implications. The addition of this emphasis area will reduce faculty workload. The Plan III MS is envisioned by our graduate program to be optimal for i) students who enroll in the SOE Shared Credit program (combined BS in Chemical Engineering or other undergraduate programs in SOE \rightarrow MS in Biomedical Engineering); or ii) in case of a future online-only degree in BME. In either of these cases, the Plan III MS will eliminate the need for an MS exit exam with committee. At present, there are 6 students enrolled in the Shared Credit program. Eliminating exit exam committees will

therefore reduce the workload of 18 faculty by 2 hours, or 36 person hours next semester. As the program grows in popularity, the savings in faculty hours will also increase.

Impact on Other Departmental Programs. The impact on other BME programs will have a positive impact on our other departmental programs. We believe that the number of MS degrees awarded by our program will increase with the addition of this streamlined Plan III MS, for two reasons:

- *current* students pursuing the PhD in BME will be able to apply for the MS at the conclusion of their coursework (at the Qualifying Exam stage, rather than the Comprehensive Exam stage). By disengaging the MS from the Comprehensive Exam, students will understand that the degree is truly a "coursework only" MS, without the need for a stressful oral exit exam.
- *new* students looking for an advanced degree for promotion purposes (e.g., from the US Air Force, Sandia and Los Alamos National Laboratories), will see this option as more attractive to one that requires an independent study ("Problems" course) such as is currently required by our Plan II MS, or research with faculty ("Thesis" credits) such as is required by our Plan I MS.

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Curriculum Workflow



Link to Curricula Forms Process Manual
DEGREE/PROGRAM CHANGE FORM C Form Number: C1813
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Name of Initiator: Tariq Khraishi
Proposed effective term Semester Fall ▼ Year 2016 ▼
Course Information
Select Appropriate Program* Undergraduate Degree Program ▼ Name of New or Existing Program* BSME Mechanical Engineering Select Category * Degree ▼ Degree Type BS Select Action Revision ▼ Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.*
See current catalog for format within the respective college (upload a doc/pdf file) Policy_on_Cgrades_or_lower_submitted_to_UNM_Work_Flow.pdf
Does this change affect other departmental program/branch campuses? If yes, indicate below.
Reason(s) for Request* (enter text below or upload a doc/pdf file) The ME department faculty have decided to only accept a C or higher grade for courses counted towards the BSME (Bachelor of Science in Mechanical Engineering). The submitted request herein reflects this decision.
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)
☐ Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)
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Existing language on: http://catalog.unm.edu/catalogs/2015-2016/colleges/engineering/mechanical/undergraduate-program.html

66

Policy on "D" or "D+" Grades

Students admitted or readmitted to the Mechanical Engineering degree program may not apply a course toward the B.S.M.E. degree if the highest grade earned in the course is a grade of "D+" or less, regardless of where that grade was earned.

Please change the above to be:

66

Policy on "C-" Grades

Students admitted or readmitted to the Mechanical Engineering degree program may not apply a course toward the B.S.M.E. degree if the highest grade earned in the course is a grade of "C-" or less, regardless of where that grade was earned.

"

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Curriculum Workflow



Link to Curricula Forms Process Manual				
DEGREE/PROGRAM CHANGE FORM C Form Number: C1824				
Fields marked with * are required				
Name of Initiator: Ziarat Hossain				
Proposed effective term Semester Fall ▼ Year 2016 ▼				
Course Information				
Select Appropriate Program* Undergraduate Degree Program Name of New or Existing Program* Family and Child Studies (FCS) Subject Code Select Category * Subject Code Degree Type B.S. Select Action New Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.* See current catalog for format within the respective college (upload a doc/pdf file)				
FS to FCS code.docx				
■ Does this change affect other departmental program/branch campuses? If yes, indicate below. Reason(s) for Request* (enter text below or upload a doc/pdf file) The merger between FS and ECME Programs will be reflected under a new subject code: FCS - Family and Child Studies (see attached for details)				
FS to FCS code - Reason.docx				
Upload a document that inlcudes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.* (upload a doc/pdf file)				
FCS Undergraduate Executive Summary.docx				
Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.				
Upload a two-page Executive Summary authorized by Associate Provost.* (upload a doc/pdf file)				
Upload memo from Associate Provost authorizing go-ahead to full proposal.* (upload a doc/pdf file)				
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Reasons for Change of Subject Code

FS to FCS Subject Code ECME to FCS Subject Code

FS and ECME faculty have shared academic interests that focus on families, children, and communities. The complementarity of such interests and expertise will be significantly enhanced by the proposed merger. In addition, the merger will help us pool resources to effectively address both faculty and student involvement in academic processes and products. We envision that such a consolidation will improve the quality of our teaching, research, advisement, and other professional contributions and services. As a key corollary, students will be a part of a vibrant, innovative program and will experience a well-supported academic and learning environment.

As already indicated, the Form C to revise the existing Family Studies Bachelor of Science degree is part of a deliberative process to merge two existing programs, Early Childhood Multicultural Education and Family Studies, in the Department of Individual, Family, and Community Education in the College of Education. As part of this process, the existing ECME Bachelor of Science degree and the existing HDFR Bachelor of Science degrees will be deleted. As a result, the **revised major is named as Family and Child Studies (FCS)**. Minors in the Family Studies and Human Development and Family Relations will also be deleted, resulting in a revised minor in Family and Child Studies (FCS). Another Form C has included three concentrations (Human Development and Family Relations – HDFR, Early Childhood Education and Development - ECED, and Early Childhood Multicultural Education Licensure - ECMEL, Pre-K to Grade 3) that effectively revise and more efficiently organize existing programs of study in three separate Bachelor degree pathways (ECME, FS, & HDFR). Overall, the revision of the existing FS Program and the merger between FS and ECME have resulted the new/revised subject code – FCS (Family and Child Studies). It may be important to note that if all gets approved, the University of New Mexico will offer a state of the art, high-quality, and rigorous undergraduate degree program for individuals seeking license for Pre-K to Grade 3 that includes deep knowledge in early childhood education, child development, and family wellbeing.

EXECUTIVE SUMMARY

Revision of the Family Studies (FS) and the Early Childhood and Multicultural Education (ECME) Programs

&

Proposed Family & Child Studies (FCS) Program

Merger & Changes in the Undergraduate FS and ECME,

Department of Individual, Family & Community Education College of Education University of New Mexico

Summary of the Revision and Merger

Existing Programs	Proposed (Effective Fall 2016)	
B. S. in FS (128 credits)	Revise to B. S. in FCS with 3 concentrations: - Human Development and Family Relations (120 credits) - Early Childhood Education & Development (120 credits) - Early Childhood Multicultural Education Licensure, Pre-K to Grade 3 (121 credits)	
B. S. in Human Development and Family Relation (HDFR)	Delete	
B. S. in ECME	Delete	
B. A. in FS (A&S students)	B. A. in FCS (A&S students)	
Minor in FS (21 credits)	Revise to minor in FCS (18 credits)	
Minor in HDFR	Delete	

Vision of the Family & Child Studies Program

Enhancing the lives of children and families through inter-related theory, research, and practice that address the diverse and complex nature of their futures.

Mission of the Family & Child Studies Program

Our mission is to foster an interdisciplinary scholarly environment that enables early childhood professionals, family service providers, and researchers in the field of family and child study to

- cultivate and disseminate systematic information and grounded knowledge about the diverse nature of families in contemporary societies
- understand and critically respond to the dynamic complexities of human development across the lifespan
- foster leadership in addressing the multiple facets of early childhood development

Introduction

The Family & Child Studies Program (FCS) is targeted to begin Fall 2016 as the culmination of an intensive, 4-year review and revision of two existing programs in the Department of Individual, Family and Community Education (IFCE). These programs are:

Family Studies (FS); and

Early Childhood Multicultural Education (ECME)

The establishment of the FCS Program will also involve eliminating another degree program (Human Development and Family Relations – HDFR) that currently exists under the FS Program.

Family Studies currently offers Bachelor's, Master's and Doctoral degrees, and both the HDFR and ECME Programs offer the Bachelor of Science degree. The reimagination and consolidation of these degree programs are the basis for the comprehensive revision of the degree requirements for the proposed FCS degree offerings. More generally, the proposed FCS program is grounded in a firm commitment to (a) emphasize research productivity on the part of its faculty and both undergraduate and graduate students, (b) strengthen its academic offerings at all degree levels, and (c) provide excellent mentoring of its graduate and doctoral students aimed at developing leaders and quality researchers in the field.

As noted above, the proposed FCS program is the outcome of a comprehensive review of the Family Studies, Human Development and Family Relations, and Early Childhood Multicultural Education programs at the Bachelor level, and the Family Studies program at the Master and Doctoral levels. The proposed changes are therefore not aimed at creating any new degree programs but, rather, revisions of the existing Bachelor of Science, Bachelor of Arts, Master of Arts and Doctor of Philosophy degrees in Family Studies. In line with the proposed merger, a

Form C will be submitted to delete both the ECME and HDFR Bachelor of Science degrees. The revision of the FS – B.S. degree to the FCS – B.S. degree will result in three concentrations as follows:

- a) Human Development and Family Relations (HDFR 120 credits)
- **b)** Early Childhood Education and Development (ECED 120 credits)
- c) Early Childhood Multicultural Education Licensure (ECMEL 121 credits), Pre-K to Grade 3

The changes will result in a revised subject code (FCS) for all courses offered in the merged program and the FS and ECME subject code will expire for courses offered on main campus.

Reasons for Request

FS and ECME faculty have shared academic interests that focus on families, children, and communities. The complementarity of such interests and expertise will be significantly enhanced by the proposed merger. In addition, the merger will help us pool resources to effectively address both faculty and student involvement in academic processes and products. We envision that such a consolidation will improve the quality of our teaching, research, advisement, and other professional contributions and services. As a key corollary, students will be a part of a vibrant, innovative program and will experience a well-supported academic and learning environment.

As already indicated, the Form C to revise the existing Family Studies Bachelor of Science degree is part of a deliberative process to merge two existing programs, Early Childhood Multicultural Education and Family Studies, in the Department of Individual, Family, and Community Education in the College of Education. As part of this process, the existing ECME Bachelor of Science degree and the existing HDFR Bachelor of Science degrees will be deleted. Minors in the Family Studies and Human Development and Family Relations will also be deleted, resulting in a revised minor in Family and Child Studies (FCS). The current Form C will include three concentrations (Human Development and Family Relations – HDFR, Early Childhood Education and Development – ECED, and Early Childhood Multicultural Education Licensure - ECMEL, Pre-K to Grade 3) that effectively revise and more efficiently organize existing programs of study in three separate Bachelor degree pathways (ECME, FS, & HDFR). It may be important to note that if all gets approved, the University of New Mexico will offer a state of the art, high-quality, and rigorous undergraduate degree program for individuals seeking license for Pre-K to Grade 3 that includes deep knowledge in early childhood education, child development, and family well-being.

Justification of the Merged FCS Program

The Early Childhood Multicultural Education Program and the Family Studies Program faculty believe that the proposed merger is an appropriate evolution of programs that have been closely linked since the creation of the ECME program at UNM following the adoption of the Birth to Grade Three Teaching License by the then New Mexico State Board of Education in 1993. Three UNM faculty members from Family Studies were part of the original group that developed the licensure competencies and developed the proposal for the new ECME degree program at UNM. That program began admitting students in 1996. From 1996 to 1999 Family Studies faculty taught courses in ECME; since 1999, at least three Family Studies courses have

been taught each academic year by ECME faculty. And in the past three years, ECME faculty members have taught at least five Family Studies courses each academic year.

The original plan for ECME included five-tenure/tenure track faculty. However, this plan was never realized. From 1998 to 2000 the ECME program had 4.5-tenure/tenure track faculty. From 2000 to 2007 the ECME program operated with only 2.5 faculty. Similarly, the Family Studies program experienced significant attrition of its faculty from 1998 to 2015, decreasing from nine tenure/tenure track faculty members to only two. Given this history, a primary reason for the merger proposal is the need to create a future-oriented program with a critical mass of faculty able to sustain both quality and expansion to meet the needs of its students and to contribute meaningfully to the field of Family & Child Studies. Especially in light of the economic challenges affecting higher education, it seems clear that two programs in the College of Education, functioning separately and with only five full-time tenure-track faculty total (two FS and three ECME), would not be able to sustain quality and growth. In addition, the colleagues in Family Studies and ECME see such a merger as exactly the type of redesign and interdisciplinary initiative that the university is encouraging to respond effectively to the need for excellence in programs and creativity that reflects trends in a range of fields. More specifically, the faculty colleagues have agreed that merging the two programs would enable them to address more effectively the critical need for preparing professionals for positions of leadership in New Mexico in the context of programs and services for young children, their families, and the wider community.

Several important reasons factored into the re-design of our proposed bachelor of science degree program that includes a new early childhood teacher preparation pathway leading to state license.

First, July 2014 witnessed the state's adoption of two new early childhood licenses that replaced the original Birth to Grade 3 License. The "Birth to Pre K" and "Pre K to Grade Three" licenses. The state adopted a "non-licensure" Birth to PreK option for early childhood professionals who require a degree in early childhood but not a state license (e. g., Head Start personnel).

Second, the Early Childhood Teacher Preparation pathway in New Mexico includes a complete Associate of Arts degree program requiring 35 general education credits and 29 professional courses that are offered at almost every community college and branch campus in New Mexico. Unlike other teacher educator programs in New Mexico, Early Childhood Educator programs are under a statewide full articulation agreement that requires UNM to accept 11 of the 20 required professional courses for licensure taken at any of the other colleges in New Mexico.

Third, since 2002, the state has adopted a "universal curriculum" in early childhood which mandates that all courses for Associate and Bachelor level degrees have identical course titles, course descriptions, and course competencies, a comprehensive review of all Associate degree programs in the state revealed a wide range of quality in Associate of Arts Early Childhood programs across our state.

Fourth, we are concerned that our ability to be accountable for the quality of our program and the competency level of our graduates would be compromised by the fact that students could transfer in 86 of the 135 credits required courses from other institutions under state articulation and our own university rules.

Fifth, our governor signed into law Senate Bill 329 in April of this year. This act amends the school personnel act by reducing the general education requirements for teachers in New Mexico. In response to SB 329, our college established a Curriculum Consensus Committee to approve modifications to existing teacher preparation degree programs and to enhance our teacher preparation programs with additional course work aimed at cultural responsiveness, classroom assessment, bilingual education, and special education.

Sixth, in 2014 the provost's office encouraged undergraduate degree programs to develop 120 credit degree plans in order to align with national trends that also would address the increasing cost of higher education, and graduation rates.

To these ends, the FCS program is proposing three concentrations that address these six issues. The revised Bachelor of Science degree will offer two 120-credit concentrations and one 121-credit concentration that leads to PreK to Grade 3 New Mexico teaching license. Taken together, HDFR, ECED, and ECMEL Pre-K to Grade 3 concentrations will afford students with opportunities to develop deep understandings of children's growth, development and learning, family health and well-being as well as acquiring deep knowledge of the important ways in which family relationships, socialization, and community engagement factor into children's readiness for succeeding in school.

The proposed revision will offer a high-quality, state of the art program that responds to the Provost Office's of increasing graduation and reducing total number of credits in undergraduate programs offered at UNM. In the revised FCS program, the total number of credits required in two non-license concentrations of the bachelor level degree program will be 120 credits (i. e., a reduction from 135 to 120 credits) and the Pre-K to Grade 3 license pathway will be 121 credits. In addition, the proposed revision modifies and updates existing courses from both Family Studies and ECME and also includes new courses from within the College of Education in preparing teachers for the PreK to Grade 3 teaching license.

The FCS faculty strongly believe the re-designed early childhood teacher preparation concentration and the proposed non-licensure early childhood education and development concentration address shortcomings of the current undergraduate teacher preparation method in New Mexico that has heretofore focused primarily on transferability from community colleges and focus on state certification. The original Early Childhood licensure model in NM was designed prior to the adoption of the three-tier teacher licensing system in New Mexico, and the significant growth of diversity of early childhood positions in New Mexico that require higher education but not state certification. Our new design assures quality, cost efficiency, and comprehensiveness in early childhood teacher preparation, and in preparing professionals to work in a variety of positions that serve young children, families, and communities.

Impact of Long-Range Planning

The faculty who would comprise the proposed Family and Child Studies program have completed a comprehensive curriculum review and have created a 2-year schedule of undergraduate course offerings. (See **Appendix 1** for the Bachelor level schedule.) The proposed changes will allow the Department of Individual, Family, and Community Education (IFCE) to *reduce* its scheduling load because the merger of the two existing programs will include:

• Consolidating eight existing FS and ECME courses into four FCS courses.

- Scheduling fewer ITV courses (given that most of the courses in two FCS degree concentrations will only be offered on main campus).
- More efficient use of Teaching Assistants and Part Time Instructors.
- Relying on Special Education faculty to teach FCS 321. (Their expertise is specific to this course; see Appendix 2.)

In view of student graduation, curricular importance, admission to the program requirements, and increasing enrollment in our undergraduate courses, the FCS program will also need to make these changes:

- We will increase the frequency of offering one course (FCS 105: Introduction to Family and Child Studies). Although this is a core course and students are required to complete this course before being admitted into the program, it is currently taught only once a year and therefore delays student admission into the program and subsequent graduation.
- We will offer a new freshmen level course (FCS 102: Carpe Noctem: Sleep, Health & Family) once a year. A second course, 104: Children's Motivational Development, will also be developed. Although these are elective courses, they will serve as recruitment/feeder for FCS majors. In addition, based on faculty research interest and expertise, these offerings will help faculty strengthen the links between their research and undergraduate teaching. As important, students will be offered an intellectual forum for developing specific research interests in family and child studies early in their academic life.
- We will reduce the frequency of offering licensure courses to once a year instead of our offering all courses both fall and spring. Stringent advising through student advisors and program faculty utilizing detailed paper and web-based resources will be implemented to ensure students stay on track to graduate in a timely manner.

These changes will increase our ability to offer all courses in all concentrations and, therefore, in addition reducing total required credits to 120/121, we effectively minimize time-to-graduation for all undergraduate students in our program.

Faculty strength is obviously a key component of any program revision or merger. The current faculty composition of five tenure-track faculty and one lecturer with a search presently underway for a sixth tenure-track faculty member is sufficient to staff this merged program with one exception. The Family Studies Program currently holds a provisional accreditation from the National Council on Family Relations to offer the Certified Family Life Educator credential at the bachelor's level. The provision exists because no current faculty are themselves certified. Furthermore, the program currently has qualified part-time instructors but not full-time faculty to teach several of the courses related to consumer sciences. FLE certification is a preferred qualification in the current ongoing search, and adding faculty expertise in consumer sciences will be an important priority in the next few years.

Detailed Budget Analysis

In order to determine the budgetary implications and the broader resource needs of this revised undergraduate curriculum, we first articulated the current faculty expertise relative to the proposed curriculum (Table 1). Then we determined the preferred qualifications for instructors for each course (Table 1). We used these two analyses to construct a two-year staffing projection. From these analyses, we were able to determine what the staffing needs for this program will likely be (Table 2).

Table 1 demonstrates that the current faculty expertise maps onto the proposed curriculum with two exceptions (marked with red shade in the table). The first, as was described in the previous section, is the lack of expertise with consumer science courses. The second is the single course in marriage and families. The program has been addressing these needs through part-time instruction, which is an acceptable short and medium term solution. The FCS program will attend to the long-term issues within its future hiring requests.

Table 1 also articulates the preferred qualifications of instructors for each course in the revised program. Those courses designated for faculty-only instruction are core courses and/or require specific faculty expertise (e.g. those electives designed around faculty research expertise). Some courses have been designated as faculty or part-time instructor depending on faculty availability. Finally, a few courses have been designated as TA or PTI only. These courses are ones in which doctoral students will gain teaching experience. Thus 20 (54%) courses have been designated as faculty-only: 16 (43%) courses are designated as faculty or TA/PTI; and 1 course (3%) has been designated for TA/PTI only. Those proportions are similar to the actual proportions of sections taught by faculty, TAs and PTIs during the last two academic years. Table 2 displays an example two-year schedule. The frequency of courses is based on the sample plans of study appended and on historical frequency of offerings. It is an "example" in terms of the exact ratio of faculty to TA/PTI assignments. It also conforms to the preferred instructor qualifications. This example schedule demonstrates that in Academic Year 2016-2017, 5.55 regular faculty FTE are needed for this undergraduate curriculum and in AY2017-2018, 4.95 regular faculty FTE are needed. For comparison, in AY14-15, FS and ECME employed 3.7 regular faculty FTE in undergraduate instruction. Given the known course reassignments for program coordination, the new assistant professor, and for the lecturer's other duties, there remains 1.2 regular faculty FTE in AY16-17 and 1.8 regular faculty FTE in AY17-18 for graduate instruction. That is roughly eight graduate course sections per year, which should prove adequate for the graduate programs also being proposed for the FCS program. This example schedule also demonstrates that in AY16-17, the schedule will require 6.75 FTE of TA/PTI use and in AY17-18, 7.25 FTE of TA/PTI use. For comparison, in AY14-15, FS and ECME employed 8.0 FTE of TA/PTI use in undergraduate instruction.

The changes to the undergraduate programs should have no large impact on student enrollments by themselves. The clarity of the program identity, the articulated degree pathways, and the 120/121 hour options, might attract additional majors, but that growth should be incremental and thus manageable. Therefore, we foresee no student-driven changes in the resources required for the program.

In summary, the revised undergraduate program should permit more regular faculty FTE and less TA/PTI than the current undergraduate programs while still providing sufficient regular faculty FTE for graduate instruction. The mismatches between current faculty expertise and that required in the revised program are slight and can be addressed over time. There should also be no appreciable change in number of undergraduate majors.

Curricular Changes Required at the Bachelor Level

Section A: Existing Degree Programs:

Three Bachelor level degrees currently exist in Family Studies. They are:

- 1) The Bachelor of Science (B.S.) in Family Studies (FS) in the College of Education;
- 2) The Bachelor of Arts (B.A.) in Family Studies (FS) offered in the College of Arts and Sciences; and
- 3) The Bachelor of Science (B.S.) degree in Human Development and Family Relations (HDFR) in the College of Education

One Bachelor level degree currently exists in the ECME program. It offers the Bachelor of Science (B.S.) degree in Early Childhood Multicultural Education (ECME) in the College of Education.

Section B: The Proposed FCS Degree Program

Two bachelor level degrees will be offered under the FCS Program. They are:

- 1) The Bachelor of Science (B.S.) in Family and Child Studies (FCS) in the College of Education;
- 2) The Bachelor of Arts (BA) in Family and Child Studies (FCS) in the College of A&S.

The proposed B.S. degree in FCS program will be offered with three concentrations:

- 1) Early Childhood Education and Development (ECED)
- 2) Human Development and Family Relations (HDFR)
- 3) Early Childhood Multicultural Education Licensure (ECMEL), Pre-K to Grade 3

The proposed program of studies for ECED, HDFR, and ECMEL concentrations of the FCS Bachelor of Science degree are found in **Appendix 3**.

Section C: Forms

The proposed revisions will include the following curricular forms at the undergraduate level:

Form C – Deletion and/or revision

- 1. Deletion of the ECME Bachelor of Science degree.
- 2. Deletion of the HDFR Bachelor of Science degree.
- 3. Revision of the FS Bachelor of Science degree into the FCS Bachelor of Science Degree
- 4. Creation of the Human Development and Family Relations concentration of the Bachelor of Science in FCS.
- 5. Creation of the Early Childhood Education and Development concentration of the Bachelor of Science in FCS.
- 6. Creation of Early Childhood Multicultural Education Licensure, Pre-K to Grade 3 of the Bachelor of Science in FCS
- 7. Revision of the FS Minor to create FCS minor
- 8. Deletion of the HDFR Minor.
- 9. Revision of the FS Bachelor of Arts degree into the FCS Bachelor of Arts degree.
- 10. Authorization to count ARTE as fulfilling the UNM Core Fine Arts Requirements

Form B – New courses are developed as feeder for FCS and as the requirements for the ECMEL Pre-K to Grade 3 Licensure track in FCS

- FCS 102: Carpe Noctem: Sleep, Health & the Family (3)
- FCS 302: Emergent Literacy (3)
- FCS 316 Early Childhood Pedagogy & Curriculum (3)
- FCS 321 Young Children with Diverse Abilities (3)
- FCS 405: Advanced Caregiving for Infants and Toddlers (3)
- FCS 406: Teaching and Learning Math and Science (3)
- FCS 408: Teaching and Learning Social Studies, Fine Arts & Movement (3)
- FCS 440: Student Teaching Seminar (3)

Form A – FS/ECME Courses revised for proposed FCS program that involves New Prefix or New Number or Revised Course Title.

Existing Program	Existing Course Prefix,	Revised Course Prefix,	Action
	Number, & Title in FS	Number, & Title in FCS	
FS – Family Studies	FS 202: Infant Growth and	FCS 203: Infant Growth and	Prefix; Course Number
	Development	Development	
	FS 213: Marriage and Family	FCS 213: Marriage and Family	Prefix
	Relationships	Relationships	
	FS 281: Introduction of	FCS 105: Introduction to	Prefix; Course Number; New
	Family Studies	Family and Child Studies	Title
	FS 304: Growth &	FCS 304: Growth &	Prefix
	Development in Middle	Development in Middle	
	Childhood	Childhood	
	FS 310: Friends & Intimate	FCS 310: Friends & Intimate	Prefix
	Relationships	Relationships	
	FS 312: Parent- Child	FCS 312: Parent- Child	Prefix
	Interactions	Interactions	
	FS 313: Family Theories and	FCS 313: Family Theories	Prefix
	Contemporary Lifestyles		
	FS 315: Adolescent	FCS 315: Adolescent	Prefix
	Development in the Family	Development in the Family	
	FS 341: Ecological Aspects of	FCS 341: Ecological Aspects of	Prefix
	Housing	Housing	
	FS 343: Family Management	FCS 343: Family Management	Prefix; remove "permission of
	Theories	Theories	instructor"
	FS 344: Consumer Decisions	FCS 344: Consumer Decisions	Prefix
	FS 391: Problems	FCS 391: Problems	Prefix; Instructor Permission
	FS 395: Field Experience I	FCS 395: Field Experience	Prefix; Instructor Permission
	FS 403: Growth and	FCS 403: Growth and	Prefix
	Development of the Preschool	Development of the Preschool	
	Child	Child	
	FS 407L: Preschool Child	FCS 407L: Preschool Child Lab	Prefix
	Laboratory		

	FS 411: Marriage & Family	FCS 411: Marriage & Family	Prefix
	Life Education	Life Education	
	FS 412: Fathering	FCS 412: Fathering	Prefix
	FS 416: Adult Development in	FCS 416: Adult Development	Prefix
	the Family	in the Family	
	FS 443: Application of Family	FCS 443: Application of	Prefix
	Management Theories	Family Management Theories	
	FS 481: Families and Public	FCS 481: Public Policy and	Prefix; Junior Standing
	Policy	Advocacy in Family and Child	_
		Studies	
	FS 484: Ethnic Minority	FCS 484: The Sociocultural	Prefix; New Title; Junior
	Families	Context of Families	Standing
	FS 493: Topics	FCS 493: Topics	Prefix
	FS 497: Reading & Research	FCS 497: Reading & Research	Prefix; Instructor Permission
	in Honors I	in Honors I	
	FS 498: Reading & Research	FCS 498: Reading & Research	Prefix; Instructor Permission
	in Honors II	in Honors II	
	FS 499: Honors Thesis	FCS 499: Honors Thesis	Prefix; Instructor Permission
ECME – Early Childhood	ECME 305: Research and	FCS 305: Research and	Prefix; New Title; Junior
Multicultural Education	Evaluation in Early Childhood	Evaluation in Family and Child Studies	Standing
	ECME 311: Family and	FCS 311: Family, Language	Prefix; New Title; Credit value
	Community Collaboration II	and Culture	change (2 to 3 credits)
	ECME 401: Research in Child	FCS 401: Research in Child	Prefix
	Growth, Development, and	Growth, Development, and	
	Learning	Learning	
	ECME 402: Teaching and	FCS 402: Teaching and	Prefix; New Title
	Learning Reading and Writing	Learning Reading and Writing	
	ECME 417L: Methods and	FCS 417L: Teaching and	Prefix; New Title
	Materials for the Early	Learning Practicum	
	Primary Grades Practicum		
	ECME 440L: Student Teaching	FCS 440L: Student Teaching	Prefix; New Title; Credit value
	Lab	Lab	change (12 to 9 credits)

Form A – Lower Division FCS courses that are required to be offered as "Also Offered As" courses with UNM branch ECME courses. These courses are required for the Associate of Arts in ECME at branch campuses and FCS Bachelor of Science ECED and ECMEL

Pre-K to Grade 3 concentrations on main campus.

Existing ECME	Existing ECME Course Number	Equivalent to FCS Course	Action
Program in	and Title in Branch Campuses	Number and Title	
Branch Campuses	_		
ECME – Early	ECME 101: Child Growth,	FCS 101: Child Growth,	Prefix; AOA ECME 101
Childhood and	Development & Learning	Development & Learning	
Multicultural	•		
Education			
	ECME 103: Health Safety, &	FCS 103: Health Safety, &	Prefix; AOA ECME 103
	Nutrition	Nutrition	
	ECME 111: Family and	FCS 111: Family and	Prefix; New Title; AOA ECME
	Community Collaboration I	Community Collaboration	111
	ECME 115: Guiding Young	FCS 115: Guiding Young	Prefix; AOA ECME 115
	Children	Children	
	ECME 117: Curriculum and	FCS 117: Curriculum	Prefix; New Title;
	Implementation I	Development Through Play	AOA ECME 117
	•	Birth Through Age 4	
	ECME 117L: Curriculum and	FCS 117L: Practicum Birth	Prefix; New Title;
	Implementation Practicum I	through Age 4	AOA ECME 117L
	ECME 202 Introduction to	FCS 202: Introduction to	Prefix; New Title;
	Reading and Literacy	Reading, Language & Literacy	AOA ECME 202
	Development		
	ECME 217: Curriculum and	FCS 217: Curriculum	Prefix; New Title;
	Implementation II	Development and	AOA ECME 217
	•	Implementation Age 3 to	
		Grade 3	
	ECME 217L: Curriculum and	FCS 217L: Practicum Age 3 to	Prefix; New Title;
	Implementation Practicum II	Grade 3	AOA ECME 217L
	ECME 220: Assessment of	FCS 220: Assessment of	Prefix; New Title;
	Children and Evaluation of	Children & Evaluation of	AOA ECME 220
	Programs I	Programs	
	ECME 230: Professionalism	FCS 230: Professionalism	Prefix; AOA ECME 230

Form A – Courses deleted from ECME

- ECME 315: Public Policy, Leadership, Ethics & Reform in ECE
- ECME 317: Integrated Early Childhood Curriculum
- ECME 317L: Integrated Early Childhood Curriculum Practicum
- ECME 391: Problems
- ECME 325: The Social, Political, & Cultural Contexts of Children & Families
- ECME 402L: Teaching Reading & Writing Practicum
- ECME 417: Method & Materials for the Early Primary Grades
- ECME 493: Topics in Early Child Education
- ECME 497: Reading & Research in Honors I
- ECME 498: Reading & Research in Honors II
- ECME 499: Honors Thesis

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Form A – Courses deleted from FS

- FS 207L Infant Lab
- FS 444 Family Finance
- FS 495 Field Experience II

APPENDIX 1

Resource Needs for the Family and Child Studies Undergraduate Degrees

Table 1: Faculty Expertise and Preferred Instructor Qualifications for All Undergraduate FCS Courses

Course Number	Course title	Preferred Instructor Qualifications	Kessel	Hossain	Atencio	Gutierrez-Gomez	Kelly	Lecturer	Asst. Professor
101	Child Growth Dev Learn	F or TA/PTI	Х	X	Х	X	Х	Х	X
102	Carpe Noctem: Sleep	Faculty	Α		X	, , , , , , , , , , , , , , , , , , ,	X	Λ	<i>A</i>
103	Health Safety & Nutrition	F or TA/PTI			Х	X	Λ	X	
105	Introduction to FCS	F or TA/PTI	Χ	X	X	X	Х	X	Х
111*	Family & Community Colla	1 01 1791 11	Λ	^	Λ		Λ	Λ	, , , , , , , , , , , , , , , , , , ,
115	Guiding Young Children	F or TA/PTI	Χ	X	Х	Х	Х	Х	Х
117*	Curriculum Dev & Play	1 01 1791 11	Λ	Λ	Λ		Λ	Α	,
117L*	Practicum: Birth to Age 4								
202*	Intro to Reading, Language								
203	Infant Growth & Dev	TA or PTI	Χ	X	Х	Х	Х	Х	Х
213	Marriage & Family Relation	F or TA/PTI	X	X	X	X	X	X	X
217*	Curriculum Dev & Implem	1 01 1791 11	Λ	Λ	X	A	Α	X	, , , , , , , , , , , , , , , , , , ,
217L*	Practicum: Age 3 -Grade 4								
220*	Assessment of Children								
230	Professionalism	Faculty	Χ		X	X		X	
302	Emergent Literacy	Faculty	Λ		Λ	X		Λ	
304	Middle Childhood	F or TA/PTI	Χ	X	X	X	X	X	X
305	Research & Evaluation	Faculty	Х	X	X	X	X	X	X
310	Friends & Intimate Rela	F or TA/PTI	Λ	X	Λ	A	X	Λ	X
311	Family, Language and	Faculty	Χ	Λ	Х	X	٨	X	X
312	Parent-Child Interactions	F or TA/PTI	X	X	X	X	Х	X	X
313	Family Theories	F or TA/PTI	A	X	Α	, , , , , , , , , , , , , , , , , , ,	X	A	X
315	Adolescent Development	F or TA/PTI	Χ	X	X	X	X	X	X
316	Early Childhood Pedagogy	Faculty	A	Α	X	X	^	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
321	Young Children with Diverse	SPED			^	Λ		^	
921	Abilities	Si Lb							

Course Number	Course title	Preferred Instructor Qualifications	Kessel	Hossain	Atencio	Gutierrez-Gomez	Kelly	Lecturer	Asst. Professor
341	Ecological Aspects of	F or TA/PTI							
343	Family Mgmt. Theories	F or TA/PTI							
344	Consumer Decision	F or TA/PTI		X					
391	Problems	Faculty		X				X	X
395	Field Experience	Faculty	Х		Х	X	Χ		
401	Research in Child Growth	Faculty	Х	X	Х	X	Х	Х	X
402	Teaching & Learning Read & Writing	Faculty			Х	X		Х	
403/407L	Preschool Child; Preschool Lab	Faculty	Х	X	X	X	Х	X	X
405	Advanced Caregiving for Infants and Toddlers	Faculty			Х	X		X	
406	Teaching & Learning: Math & Science	Faculty				X		X	
408	Teaching & Learning: Social Studies, Fine Arts	Faculty				X		Х	
411	Marriage & Family Life	F or TA/PTI							
412	Fathering	Faculty		Х					
416	Adult Development	F or TA/PTI	Х	Х	Х	X	Χ	Х	X
417L	Teach & Learn: Practicum	Faculty	Х		Х	Х		Х	
440/440L	Student Teaching Seminar; Practicum	Faculty				X		X	
443	Application of Family	F or TA/PTI							
481	Public Policy & Advocacy	Faculty	Х						
484	The Sociocultural Context of Families	Faculty	Х	Х	X	Х	Х	Х	X
493	Topics	Faculty							
497	Reading & Research in Honors I	Faculty							
498	Reading & Research in Honors II	Faculty							

Course Number	Course title	Preferred Instructor Qualifications	Kessel	Hossain	Atencio	Gutierrez-Gomez	Kelly	Lecturer	Asst. Professor
499	Honors Thesis	Faculty							

Table 2: Example Two-Year Schedule For Undergraduate FCS Courses

FCS Courses		Fall 2016	Spring 2017	Summer 2017	Fall 2017	Spring 2018
101	Child Growth Dev Learn	F	F		TA/PTI	TA/PTI
102	Carpe Noctem: Sleep	F			F	
103	Health Safety & Nutrition		TA/PTI			TA/PTI
105	Introduction to FCS	F	F		F	F
111*	Family & Community Colla					
115	Guiding Young Children	TA/PTI	TA/PTI		TA/PTI	TA/PTI
117*	Curriculum Dev & Play					
117L*	Practicum: Birth to Age 4					
202*	Intro to Reading, Language					
203	Infant Growth & Dev	TA/PTI			TA/PTI	
213	Marriage & Family Relation	TA/PTI	TA/PTI	TA/PTI	TA/PTI	TA/PTI
217*	Curriculum Dev & Implem					
217L*	Practicum: Age 3 – Grade 4					
220*	Assessment of Children					
230	Professionalism		F			F
302	Emergent Literacy		F			F
304	Middle Childhood		TA/PTI			TA/PTI
305	Research & Evaluation	F	F		F	F
310	Friends & Intimate Rela	TA/PTI	TA/PTI		TA/PTI	TA/PTI
311	Family, Language and	F			F	
312	Parent-Child Interactions	TA/PTI	TA/PTI		TA/PTI	TA/PTI
313	Family Theories	TA/PTI			TA/PTI	
315	Adolescent Development	TA/PTI	TA/PTI		TA/PTI	TA/PTI
316	Early Childhood Pedagogy	F			F	
321	Young Children with Diverse Abilities		F (ITV)			F (ITV)
341	Ecological Aspects of		Υ			Υ
343	Family Mgmt. Theories	TA/PTI	TA/PTI		TA/PTI	TA/PTI
344	Consumer Decision			TA/PTI		
391	Problems	ARR	ARR	ARR	ARR	ARR
395	Field Experience	F	F	F	F	F
401	Research in Child Growth	F			F	
402	Teaching & Learning Read &Writing	F			F	
403/	Preschool Child; Preschool Lab		F			F
407L						
405	Advanced Caregiving for Infants and Toddlers	F			F	
406	Teaching & Learning: Math & Science		F			F
408	Teaching & Learning: Social Studies, Fine Arts	F			F	
411	Marriage & Family Life	TA/PTI			TA/PTI	
412	Fathering		TA/PTI			TA/PTI
416	Adult Development	TA/PTI			TA/PTI	
417L	Teach & Learn: Practicum	- ()	TA/PTI		- (TA/PTI
440/	Student Teaching Seminar; Practicum	F (ITV)			F (ITV)	
440L	Application of Fourth.	TA /DT/			TA /DT:	
443	Application of Family	TA/PTI			TA/PTI	_
481	Public Policy & Advocacy	F	F		F	F
484	The Sociocultural Context of Families	F	F	F	F	F
493	Topics	ARR	ARR	ARR	ARR	ARR
497	Reading & Research in Honors I	ARR	ARR	ARR	ARR	ARR
498	Reading & Research in Honors II	ARR	ARR	ARR	ARR	ARR
499	Honors Thesis	ARR	ARR	ARR	ARR	ARR

^{* –} Branch Campus Only; F – Course will be offered by regular faculty; TA/PTI – Course will be offered by TA/PTI; ARR – will be arranged by faculty

APPENDIX 2

Memos addressing potential duplication

MEMORANDUM FROM SPECIAL EDUCATION PROGRAM REGARDING FCS 321

Wednesday, April 16, 2014 at 10:58:40 AM Mountain Daylight Time

Subject: FS 321

Date: Wednesday, March 26, 2014 at 10:51:39 AM Mountain Daylight Time

From: Elizabeth Keefe
To: David Atencio

Dear David:

Thank you for presenting the FS 321 course to the Special Education Faculty on October 3rd, 2013. The faculty voted unanimously to support the offering of this course as part of the new Early Childhood degree. This course does not have significant overlap with any existing SPCD courses. There are special education faculty who would be interested in teaching this course if needed.

Sincerely,

Liz Keefe

Program Coordinator, Special Education

Page 1 of 1

Memorandum from TEELP regarding the entire sequence

From: Cheryl Torrez <catorrez@unm.edu>

Subject: RE: Family and Child Studies Form B approvals

Date: April 11, 2013 11:30:35 AM MDT **To:** David Atencio <datencio@comcast.net>

David, **We see no conflict at all with these courses.** Thanks for your outstanding work! Also, I was in Zuni recently, and a few students were interested in ECME. So, if you receive emails, just a heads up. Thanks, Cheryl

Cheryl A. Franklin Torrez, Ph.D.
Associate Professor and Interim Department Chair
Department of Teacher Education
The University of New Mexico
MSC 05 2040
Albuquerque, NM 87131-000
(505) 277-9611

From: David Atencio [datencio@comcast.net]

Sent: Monday, April 08, 2013 8:12 AM

To: Cheryl Torrez **Cc:** David Atencio

Subject: Family and Child Studies Form B approvals

Good morning Cheryl,

I hope you are off to another exciting and breezy Monday morning! As I shared with you earlier, part of the merger of the Family Studies Program and the ECME program into the new Family and Child Studies program involves the creation of new courses that are in accordance with the revised Birth to PreK and the PreK to Grade Three teacher preparation pathways. These two new degree pathways were approved by the Professional Practices and Standards Council from PED for UNM, NMSU ENMU, WNMU, and NMHU on November 18, 2011. As you may know, we have a universal curriculum for all Associate Degree and Bachelor level degree early childhood programs in New Mexico. Our universal curriculum aligns with the core competencies for both the Birth to PreK and PreK to Grade Three licenses.

As part of the curriculum review process, we respectfully request your review of the attached syllabi for possible duplication with any of your department's courses. Please let me know if I can assist with any questions your faculty may have for us. On behalf of my FCS colleagues, I thank you for assistance with this important task.

Thanks again,

David



STATE OF NEW MEXICO PUBLIC EDUCATION DEPARTMENT 300 DON GASPAR SANTA FE, NEW MEXICO 87501-2786 Telephone (505) 827-5800

www.ped.state.nm.us

HANNA SKANDERA SECRETARY-DESIGNATE OF EDUCATION SUSANA MARTINEZ Governor

March 5, 2012

Dr. David Alencio ECME Program Coordinator 1 University of New Mexico Simpson Hall Albuquerque, New Mexico 87131

Dear Dr. Atencio:

I am pleased to accept the recommendation of the Professional Practices and Standards Council (PPSC) which met on November 18, 2011 to approve Teacher Quality statewide universal early childhood education licensure programs for birth to PreK and PreK to grade 3.

The approved programs apply only to four year universities, specifically Eastern New Mexico University, New Mexico Highlands University, New Mexico State University, University of New Mexico and Western New Mexico University. Also this program does not apply to any early childhood alternative licensure programming.

The community colleges involved do not need NMPED licensure approval, but are expected to provide the universal coursework for transferability and transparency among all state approved early childhood programs.

Your program will provide much-needed support to the school districts in our state.

Please extend my appreciation to your administrators, faculty, and your staff for your preparation and the presentation of your program to the members of the PPSC. I wish you and your staff at ECME every success.

Warm regards,

Hanna Skandera

Secretary Designate of Education

HS/MM/egm

Mary Lou Lovato, NMPED Professional Licensure

Revised 01.04.11

APPENDIX 3

PROPOSED FCS PROGRAM OF STUDIES FOR

- 1. B.S. in Human Development and Family Relations concentration (HDFR)
- 2. General Education courses for the HDFR concentration
- 3. B. S. in Early Childhood Education and Development concentration (ECED)
- 4. Required General Education courses for the ECED concentration
- 5. B.S. in Early Childhood Multicultural Education Licensure Pre-K to Grade 3 concentration (ECMEL)
- 6. Required General Education courses for the ECMEL Pre-K to Grade 3 concentration
- 7. Minor in Family and Child Studies
- 8. B.A. in Family and Child Studies (for A&S students)

B.S. in Family and Child Studies

Concentration: Human Development and Family Relations - HDFR (proposed)

Family and Child Studies Courses

FCS Core Curriculum		12 Credits
FCS 105	Introduction to Family and Child Studies	3
FCS 305	Research and Evaluation in Family and Child Studies	3
FCS 481	Public Policy and Advocacy in Family and Child Studies	3
FCS 484	The Sociocultural Context of Children and Families	3
HDFR Concentration	Core Curriculum	_13 Credits
FCS 213	Marriage and Family Relationships	3
FCS 312	Parent-Child Interactions	3
FCS 395	Field Experience	3
FCS 403	Growth and Development of the Preschool Child	3
FCS 407L	Preschool Child Lab	1
Family Relations		9 Credits
FCS 310	Friends and Intimate Relationships	3
FCS 313	Family Theories and Contemporary Lifestyles	3
FCS 411	Marriage and Family Life Education	3
FCS 412	Fathering	3
Human Developmen	t	9 Credits
FCS 203	Infant Growth and Development	3
FCS 304	Growth and Development in Middle Childhood	3
FCS 315	Adolescent Development in the Family	3
FCS 416	Adult Development in the Family	3
Family Resource Mai	nagement	6 Credits
FCS 341	Ecological Aspects of Housing	3
FCS 343	Family Management Theories	3
FCS 344	Consumer Decisions	3
FCS 443	Application of Family Management Theories	3
Total FCS Required F	lours*	_49 Credits
Total Credits	120	
(including 40 upper di	vision credits)	
FCS Courses	49 Credits	
Gen Ed Courses	40 Credits	
Minor (Optional)*	18 Credits	
Electives	13 Credits	

^{* 67} FCS credits are required to major in FCS (HDFR concentration) without a minor.

Note: A course in human sexuality is required for the Certified Family Life Educator (CFLE) designation. Consult NCFR's website for details.

Family and Child Studies

General Education Requirements - HDFR concentration (Total Credits = 40)

AREA 1: Writing and Speaking - 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130, PHIL 156, **UHON 201**

AREA 2: Mathematics - 3 credit hours

STAT 145

AREA 3: Physical and Natural Sciences - 7 credit hours

BIO 110/112L OR BIO 123/124L AND choose 1 additional course from the following:

ANTH 120: Arch. Method & Theory CHEM 101: Chemistry in Our Community ANTH 122L: Req. Lab for ANTH 120 (1cr) Pre-Spring 2013 ANTH 121L: Arch. M&T(4cr) ANTH 150: Evol & Human Emergence ANTH 151L: Opt. Lab for ANTH 150 (1cr) ANTH 160: Human Life Course ANTH 161L: Opt. Lab for ANTH 160 (1cr)

ASTR 101: Intro to Astronomy ASTR 101L: Opt. Lab for ASTR 101 (1cr) BIOL 110: Biology for Non-Majors BIOL 112: Opt. Lab for BIOL 110 (1cr)

CHEM 111L: Elem of General Chemistry (4cr) CHEM 121: General Chemistry I CHEM 123L: Req. Lab for Chem 121 (1cr) CHEM 122: General Chemistry II CHEM 124L: Req. Lab for Chem 122 (1cr) CHEM 131L: (Honors) Gen. Chemistry I (4cr) CHEM 132L: (Honors) Gen. Chemistry II (4cr) EPS 101: Intro to Geology EPS 105L: Opt. Lab for EPS 101 (1cr) EPS 201L: Earth History (4cr)

ENVS 101: The Blue Planet ENVS 102L: Opt. Lab for ENVS 101 GEOG 101: Physical Geography GEOG 105L: Opt. Lab for GEOG 101 (1cr) PHYC 102: Introduction to Physics PHYC 102L: Opt. Lab for PHYC 102 (1cr) PHYC 105: Physics and Society PHYC 151: General Physics

PHYC 151L: Opt. Lab for PHYC 151 (1cr) PHYC 152: General Physics

PHYC 152L: Opt Lab for PHYC 152 (1cr)

PHYC 160: General Physics

PHYC 160L: Opt. Lab for PHYC 160 (1cr)

PHYC 161: General Physics

PHYC 161L: Opt. Lab for PHYC 161 (1cr) *NTSC 261L: Physical Science (4cr) *NTSC 262L: Life Science (4cr)

*NTSC 263L: Environmental Science (4cr) UHON 203: Science in the 21st Century

AREA 4: Social and Behavioral Sciences - 6 credit hours. Choose 2 courses from the following:

AFTS / CCS / NATV / SUST / WMST 109: Intro to Comparative and Global Ethnic Societies AMST 182: Intro to Env. Sci. & Technology AMST 185: Race, Class & Ethnicity ANTH 101: Intro to Anthropology ANTH 130: Cultures of the World

ECON 105: Intro to Macroeconomics ECON 106: Intro to Microeconomics CRP 181: Intro to Environmental Problems ENGF 200: Technology in Society GEOG 102: Human Geography LING 101: Intro to Linguistics

POLS 110: The Political World POLS 200: American Politics POLS 220: Comparative Politics POLS 240: International Politics SOC 101: Intro to Sociology UHON 204: Individual & Collective

AREA 5: Humanities - 6 credit hours: Choose 2 courses from the following

Studies AMST 186: Intro to Southwest Studies CCS 201: Intro to Chicana & Chicano Studies

PSY 105: General Psychology

AFST 104: Intro to Africana Studies

CLST 107: Greek Mythology CLST 204: Greek Civilization CLST 205: Roman Civilization CLCS 223/224: Literary Questions COMP 222: Fairy and Folk Tales COMP 224: Literary Questions MLNG 101: Languages

ENGL 150: Study of Literature

ENGL 292/293: World Literatures GEOG 140: World Regional Geography HIST 101/L: Western Civilization (to 1648) HIST 102/L: Western Civilization (from 1648) HIST 161/L: History of the US to 1877 HIST 162: History of the US since 1877 HIST 181: History of Early Latin America HIST 182: Modern Latin American History

NATV 150: Intro to Native American

PHIL 101: Intro to Philosophical Problems PHIL 201: Greek Thought PHIL 202: From Descartes to Kant **RELG 107**: Living World Religions **RELG 263**: Eastern Religions RELG 264: Western Religions

UHON - Honors Legacy Sem, 100-200 level UHON 205: Humanities Society & Culture

AREA 6: Foreign Language – 3 credit hours

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts – 3 credit hours required. Choose 1 course from the following:

ARCH 121: Intro to Architecture Pre-Fall 2010 Arch 101: Intro to Architecture

ARTH 101: Intro to Art

DANC 105: Dance Appreciation FA 284: Experiencing the Arts

THEA 105: Intro to Theatre Appreciation Pre-Fall 2010 THEA 122: Theatre

MA 210: Intro to Film and Study UHON 207: Fine Art as Global Perspective

March 22, 2016 January 14, 2016

ARTH 201: History of Art 1

MUS 139: Music Appreciation

ARTH 202: History of Art 2 MUS 142: Rock Music Appreciation
Any 3 credit hour studio or performance course offered by the Department of Art and Art History, Music, Theatre and Dance, Media Arts or IFDM.

Additional Requirement - 3 credits hours

NUTR 120 OR 224

B.S. in Family and Child Studies

Concentration: Early Childhood Education & Development - ECED (proposed) Family and Child Studies Courses

FCS Degree Core Curi	riculum	_12 Credits
FCS 105	Introduction to Family and Child Studies	3
FCS 305	Research and Evaluation in Family and Child Studies	3
FCS 481	Public Policy and Advocacy in Family and Child Studies	3
FCS 484	The Sociocultural Context of Children and Families	3
Concentration Curric	culum (lower division)	_12 Credits
FCS 101	Child Growth, Development and Learning	3
FCS 102	Carpe Noctem: Sleep, Health & the Family	3
FCS 103	Health, Safety, & Nutrition	2
FCS 111	Family and Community Collaboration	3
FCS 115	Guiding Young Children	3
FCS 117	Curriculum Development through Play	3
FCS 202	Introduction to Language, Literacy, & Reading	3
FCS 203	Infant Growth and Development	3
FCS 213	Marriage and Family Relationships	3
FCS 217	Curriculum Development & Implementation Age 3 to Gr. 3	
FCS 220	Assessment of Children & Evaluation of Programs	3
FCS 230	Professionalism	2
Concentration Core C	Curriculum (upper division)	21 Credits
FCS 302	Emergent Literacy	3
FCS 311	Family, Language and Culture	3
FCS 312	Parent-Child Interactions	3
FCS 316	Early Childhood Pedagogy & Curriculum	3
FCS 401	Research in Child Growth, Development and Learning	3
FCS 403	Growth and Development of the Pre-School Child	3
FCS 405	Advanced Caregiving for Infants and Toddlers	3
FCS Electives (upper	division)	24 Credits
FCS 304	Growth and Development in Middle Childhood	3
FCS 310	Friends and Intimate Relationships	3
FCS 313	Family Theories and Contemporary Lifestyles	3
FCS 315	Adolescent Development in the Family	3
FCS 321	Young Children with Diverse Abilities	3
FCS 341	Ecological Aspects of Housing	3
FCS 343	Family Management Theories	3
FCS 344	Consumer Decisions	3
FCS 395	Field Experience I	3
FCS 407L	Pre-School Child Lab	1
FCS 411	Marriage and Family Life Education	3
FCS 412	Fathering	3
FCS 416	Adult Development in the Family	3
FCS 443	Application of Family Management Theories	3
Total Professional Co	ourses	69 Credits

	Total Credits (including 40 credits upper division)	120
	FCS Courses	69
Marrala 2	Gen Ed Courses	40
March 2	Electives	11

General Education Requirements - ECED concentration (Total Credits = 40)

AREA 1: Writing and Speaking - 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130, PHIL 156, UHON 201

AREA 2: Mathematics - 3 credit hours (choose one of the following)

STAT 145, Math 129, or Math 215

AREA 3: Physical and Natural Sciences - 7 credit hours

BIO 110/112L OR BIO 123/124L AND choose 1 additional course from the following:

ANTH 120: Arch. Method & Theory CHEM 101: Che

ANTH 122L: Req. Lab for ANTH 120 (1cr)

Pre-Spring 2013 ANTH 121L:Arch. M&T(4cr)

ANTH 150: Evol & Human Emergence

ANTH 151L: Opt. Lab for ANTH 150 (1cr)
ANTH 160: Human Life Course

ANTH 161L: Opt. Lab for ANTH 160 (1cr)

ASTR 101: Intro to Astronomy

ASTR 101L: Opt. Lab for ASTR 101 (1cr)

BIOL 110: Biology for Non-Majors

BIOL 112: Opt. Lab for BIOL 110 (1cr)

CHEM 101: Chemistry in Our Community
CHEM 111L: Elem of General Chemistry (4cr)

CHEM 121: General Chemistry I

CHEM 123L: Req. Lab for Chem 121 (1cr)

CHEM 122: General Chemistry II

CHEM 124L: Req. Lab for Chem 122 (1cr)

CHEM 131L: (Honors) Gen. Chemistry I (4cr)
CHEM 132L: (Honors) Gen. Chemistry II (4cr)

EPS 101: Intro to Geology

EPS 105L: Opt. Lab for EPS 101 (1cr)

EPS 201L: Earth History (4cr)
ENVS 101: The Blue Planet

ENVS 102L: Opt. Lab for ENVS 101 GEOG 101: Physical Geography

GEOG 105L: Opt. Lab for GEOG 101 (1cr)

PHYC 102: Introduction to Physics

PHYC 102L: Opt. Lab for PHYC 102 (1cr)

PHYC 105: Physics and Society

PHYC 151: General Physics

PHYC 151L: Opt. Lab for PHYC 151 (1cr)

PHYC 152: General Physics

PHYC 152L: Opt Lab for PHYC 152 (1cr)

PHYC 160: General Physics

PHYC 160L: Opt. Lab for PHYC 160 (1cr)

PHYC 161: General Physics

PHYC 161L: Opt. Lab for PHYC 161 (1cr)

*NTSC 261L: Physical Science (4cr)

*NTSC 262L: Life Science (4cr)

*NTSC 263L: Environmental Science (4cr) UHON 203: Science in the 21st Century

AREA 4: Social and Behavioral Sciences – 6 credit hours. Choose 2 courses from the following:

AFTS / CCS / NATV / SUST / WMST 109:

Intro to Comparative and Global Ethnic Societies

AMST 182: Intro to Env. Sci. & Technology

AMST 185: Race, Class & Ethnicity

ANTH 101: Intro to Anthropology
ANTH 130: Cultures of the World
PSY 105: General Psychology

ECON 105: Intro to Macroeconomics
ECON 106: Intro to Microeconomics
CRP 181: Intro to Environmental Problems

ENGF 200: Technology in Society **GEOG 102**: Human Geography

POLS 110: The Political World

POLS 200: American Politics
POLS 220: Comparative Politics

POLS 240: International Politics

SOC 101: Intro to Sociology

UHON 204: Individual & Collective

AREA 5: Humanities - 6 credit hours: Choose 2 courses from the following

AFST 104: Intro to Africana Studies

Studies

AMST 186: Intro to Southwest Studies

CCS 201: Intro to Chicana & Chicano Studies

CLST 107: Greek Mythology CLST 204: Greek Civilization CLST 205: Roman Civilization CLCS 223/224: Literary Questions

COMP 222: Fairy and Folk Tales COMP 224: Literary Questions MLNG 101: Languages ENGL 150: Study of Literature

LING 101: Intro to Linguistics

ENGL 130. Study of Literature

ENGL 292/293: World Literatures
GEOG 140: World Regional Geography

HIST 101/L: Western Civilization (to 1648)
HIST 102/L: Western Civilization (from 1648)

HIST 161/L: History of the US to 1877 **HIST 162**: History of the US since 1877

HIST 181: History of Early Latin America HIST 182: Modern Latin American History NATV 150: Intro to Native American

PHIL 101: Intro to Philosophical Problems
PHIL 201: Greek Thought

PHIL 202: From Descartes to Kant

RELG 107: Living World Religions
RELG 263: Eastern Religions

RELG 264: Western Religions

UHON - Honors Legacy Sem, 100-200 level

UHON - Honors Legacy Sem, 100-200 lev **UHON 205**: Humanities Society & Culture

AREA 6: Foreign Language - 3 credit hours

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts – 3 credit hours required. Choose 1 course from the following:

ARCH 121: Intro to Architecture

Pre-Fall 2010 Arch 101: Intro to Architecture

Appreciation

ARTH 101: Intro to Art
ARTH 201: History of Art 1

DANC 105: Dance Appreciation
FA 284: Experiencing the Arts

THEA 105: Intro to Theatre Appreciation
Pre-Fall 2010 THEA 122: Theatre

MA 210: Intro to Film and Study

UHON 207: Fine Art as Global Perspective

MUS 139: Music Appreciation

MUS 142: Rock Music Appreciation

ARTH 202: History of Art 2 MUS 142: Rock Music Appreciation

Any 3 credit hour studio or performance course offered by the Department of Art and Art History, Music, Theatre and Dance, Media Arts or IFDM.

Additional Requirement - 3 credits hours

NUTR 120 OR 224

74 Credits

B.S. in Family and Child Studies

Concentration: Early Childhood Multicultural Education PreK -Grade 3 Licensure

Concentrat	tion Core	Curriculum (lower division)		29 Credits
FCS 101		Growth, Development and Learning 3		
FCS 103	Health,	Safety, & Nutrition 2		
FCS 111	Family	and Community Collaboration 3		
FCS 115		g Young Children 3		
FCS 117	Curricu	ilum Development through Play 3		
FCS 117L		ılum Development through Play Practicum 2		
FCS 202	Introdu	ction to Language, Literacy, & Reading 3		
FCS 217	Curricu	alum Development & Implementation Age 3 to Gr. 3		
FCS 217L	Curricu	alum Development & Implementation Practicum 2		
FCS 220	Assessr	nent of Children & Evaluation of Programs 3		
FCS 230	Profess	ionalism 2		
Concentra	ation Core	e Curriculum (upper division)		_9 Credits
	S 311	Family, Language and Culture	3	
FC	S 321	Young Children with Diverse Abilities	3	
FC	S 401	Research in Child Growth, Development and Learning	3	
Pre K to (Grade 3 P	rofessional courses (upper division)		_24 Credits
	S 402	Teaching and Learning Reading and Writing	3	_
FC	S 406	Teaching and Learning Math and Science	4	
FC	S 408	Teaching and Learning Social Studies, Fine Arts & Movement	3	
FC	S 417L	Teaching and Learning Practicum	2	
FC	S 440	Student Teaching Seminar	3	
FC	S 440L	Student Teaching	9	
Concentra	ation Req	uirements		_12 Credits
	SS 175		3	_
LL	SS 453	Theoretical and Cultural Foundations of Bilingual Education	3	
ED	PY472	Classroom Assessment	3	
FCS	S 105	Introduction to Family and Child Studies	3	

Total Credits (including 40 credits upper division)	121
Concentration Required Courses Gen Ed Courses	74 47

Total Professional Courses

Family and Child Studies

General Education Requirements – ECME PreK – Grade 3 Licensure Concentration (Total Credits = 47)

AREA 1: Writing and Speaking – 9 credit hours

ENGL 110 OR ENGL 111/112 OR 113 AND ENGL 120

Choose 1 additional course from the following: ENGL 219, ENGL 220, CJ 130,

AREA 2: Mathematics – 6 credit hours

STAT 145. **Math** 215

AREA 3: Physical and Natural Sciences – 8 credit hours

NTSC 261L: Physical Science (4cr)

NTSC 262L: Life Science (4cr)

NTSC 263L: Environmental Science (4cr)

AREA 4: Social and Behavioral Sciences – 9 credit hours. Choose 3 courses from the following:

AFTS / CCS / NATV / SUST / WMST 109: ECON 105: Intro to Macroeconomics POLS 110: The Political World

AMST 182: Intro to Env. Sci. & CRP 181: Intro to Environmental AMST 185: Race, Class & Ethnicity ANTH 101: Intro to Anthropology ANTH 130: Cultures of the World CRP 181: Intro to Environmental ENGF 200: Technology in Society GEOG 102: Human Geography LING 101: Intro to Linguistics

POLS 220: Comparative POLS 240: International SOC 101: Intro to Sociology UHON 204: Individual &

Collective

AREA 5: Humanities – 9 credit hours: Choose 3 courses from the following:

HIST 101/L: Western Civilization (to 1648) OR HIST 102/L: Western Civilization (from 1648)

HIST 161/L: History of the US to 1877 OR HIST 162/L: History of the US since 1877

HIST 260: History of New Mexico

PSY 105: General Psychology

AREA 6: Foreign Language – 3 credit hours:

One course chosen from any lower-division non-English language offerings from the Dept. of Linguistics (including Sign Language), Spanish and Portuguese, Foreign Languages and Literatures, and foreign languages in other depts. and programs (except Latin 105).

AREA 7: Fine Arts – 3 credit hours:

ARTE 214: Art in the Elementary and Special Education Classroom

B.A. in Family and Child Studies

(Arts and Sciences Students)

Major: Family and Child Studies (proposed)

FCS Core Curriculi	ım	12 Credits
FCS 105	Introduction to Family and Child Studies	3
FCS 305	Research and Evaluation in Family and Child St	udies 3
FCS 481	Public Policy and Advocacy in Family and Child Stud	lies 3
FCS 484	The Sociocultural Context of Children and Fami	lies 3
Other Required Cu	ırriculum	12 Credits
FCS 213	Marriage and Family Relationships	3
FCS 312	Parent-Child Interactions	3
FCS 343	Family Management Theories	3
FCS 395	Field Experience	3
Additional FCS Cu	rriculum	12 Credits
Total Required Ho	ours	36 Credits
To fulfill additional	12 FCS credits, take any four courses from the lis	t halazza
10 Iumm <u>auditionar</u>	12 PCS credits, take any lour courses from the his	t below:
FCS 203	Infant Growth and Development	3
	•	
FCS 203	Infant Growth and Development	3 3 3
FCS 203 FCS 304	Infant Growth and Development Growth and Development in Middle Childhood	3
FCS 203 FCS 304 FCS 310	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships	3 3 3
FCS 203 FCS 304 FCS 310 FCS 311	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture	3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles	3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family	3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities	3 3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing	3 3 3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341 FCS 344	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing Consumer Decisions	3 3 3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341 FCS 344 FCS 401	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing Consumer Decisions Research in Child Growth, Dev. & Learning	3 3 3 3 3 3 3 3 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341 FCS 344 FCS 401 FCS 403	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing Consumer Decisions Research in Child Growth, Dev. & Learning Growth and Development of the Preschool Child	3 3 3 3 3 3 3 3 4 3 3
FCS 203 FCS 304 FCS 310 FCS 311 FCS 313 FCS 315 FCS 321 FCS 341 FCS 344 FCS 401 FCS 403 FCS 411	Infant Growth and Development Growth and Development in Middle Childhood Friends and Intimate Relationships Family Language and Culture Family Theories and Contemporary Lifestyles Adolescent Development in the Family Young Children with Diverse Abilities Ecological Aspects of Housing Consumer Decisions Research in Child Growth, Dev. & Learning Growth and Development of the Preschool Child Marriage and Family Life Education	3 3 3 3 3 3 3 3 3 3

^{*} For Minor and General Education Requisites, please consult with your advisor in your College.

Individual, Family & Community Education Department

Family and Child Studies Program

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Minor:

	Family and Child Studies Courses		
FCS Core Curricult			12 Credi
FCS 105	Introduction to Family and Child Studies	3	
FCS 305	Research and Evaluation in Family and Child Studies	3	
FCS 481	Public Policy and Advocacy in Family and Child Studies	3	
FCS 484	The Sociocultural Context of Children and Families	3	
Additional Courses			6 Credit
FCS 202	Introduction to Language, Literacy, & Reading	3	
FCS 203	Infant Growth and Development	3	
FCS 213	Marriage and Family Relationships	3	
FCS 217	Curriculum Development & Implementation Age 3 to Gr. 3	3	
FCS 220	Assessment of Children & Evaluation of Programs	3	
FCS 304	Growth and Development in Middle Childhood	3	
FCS 310	Friends and Intimate Relationships	3	
FCS 312	Parent-Child Interactions	3	
FCS 313	Family Theories and Contemporary Lifestyles	3	
FCS 315	Adolescent Development in the Family	3	
FCS 316	Early Childhood Pedagogy & Curriculum	3	
FCS 321	Young Children with Diverse Abilities	3	
FCS 341	Ecological Aspects of Housing	3	
FCS 343	Family Management Theories	3	
FCS 344	Consumer Decisions	3	
FCS 395	Field Experience	3	
FCS 401	Research in Child Growth, Development and Learning	3	
FCS 403	Growth and Development of the Preschool Child	3	
FCS 405	Advanced Caregiving for Infants and Toddlers	3	
FCS 411	Marriage and Family Life Education	3	
FCS 412	Fathering	3	
FCS 416	Adult Development in the Family	3	
FCS 443	Application of Family Management Theories	3	

Total FCS Required Hours _____ 18 Credits