Program is under revision to meet the emerging Indiana Rules for Educator Preparation and Accountability (REPA) requirements. Please see an education advisor for more details.

This program sheet is effective for all students starting at IUB beginning summer 2016.

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## B.S. EDUCATION: SCIENCE (EARTH/SPACE SCIENCE)

## **INDIANA UNIVERSITY**

SCHOOL OF EDUCATION Office of Teacher Education Bloomington This Bachelor of Science in Education degree enables you to teach Middle School/Junior High or High School students. Course requirements for this program are valid at IUB as reflected in the School of Education Bulletin. A four year college plan requires completion of 15 credits each semester. A 2.5 GPA overall is required for retention and graduation. A total of 120 credits are required for graduation.

May 2016

PREREQUISITES FOR ADMISSION TO THE TEP	Mathematical Modeling (MM) (Select one) 3-4 credits
(Competitive enrollment. Meeting minimum requirements does r	
guarantee enrollment in authorized courses.)	MATH-M/S/V 118 Finite Mathematics 3
1. Complete the basic skills testing requirement by using any of the	MATH-D 116 Intro to Finite Mathematics I AND 2
following options:	MATH-D 117 Intro to Finite Mathematics II (P: D116) 2
<ul> <li>Qualifying scores on CASA</li> </ul>	MATH-J 113 Intro to Calculus with Applications 3
Reading 220, Math 220, Writing 220	MATH-M 119 Brief Survey of Calculus I 3
<ul> <li>SAT combined score of at least 1100</li> </ul>	MATH-M/S 211 Calculus / 4
• Sum of MA + VE = 1100	
ACT composite score of at least 24	Arts & Humanities (A&H) 6 credits
$\circ$ Sum of EN + MA + RE + SR scores divided by 4 = 24 2. 2.5 GPA overall.	Complete at least 2 courses for a total of at least 6 credits.
<ol> <li>2.5 GFA overall.</li> <li>3. 21 credits and a 2.5 GPA in the content field with at least 15 cred</li> </ol>	lito
completed and 6 credits in progress. Grade of C minus or higher	
required in each content field course.	
<ol> <li>Completion of or enrollment in prerequisites: Grade of C or higher</li> </ol>	sr is Social & Historical Studies (S&H) 6 credit
required in each EDUC course.	
•	complete at least 2 courses for a total of at least 6 credits.
EDUC-M 300 Teaching in a Pluralistic Society (D)	3
EDUC-IN Store Fredering in a Flat inside Goolety <u>(D)</u> EDUC-P 312 Learning Theory into Practice	3 • •
EDUC-P 312     Education for the second	
<b>o i</b>	Natural & Mathematical Sciences (N&M)
	3 (Complete <u>ONE</u> of the following options.) 5+ credit
5. Apply by October 1 for Spring Semester Block I courses.	
6. Submit TEP Application Online:	Option I: Complete at least 2 courses for a total of at least 5 credits. At
https://info.educ.indiana.edu/teachered/	least 1 of these courses must be a Natural Science (*) course.
I. IUB & SCHOOL OF EDUCATION	••
GENERAL EDUCATION REQUIREMENTS	
	Option II: Complete a 5 credit science course.
http://gened.iub.edu/courses/genedcourses.html	Option II: Complete a 5 credit science course.
http://gened.iub.edu/courses/genedcourses.html (Careful selection and completion of courses with a grade of "C" or h	Option II: Complete a 5 credit science course.
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http://gened.iub.edu/courses/genedcourses.html (Careful selection and completion of courses with a grade of "C" or h may allow double counting within General Education, Profession	nigher       •         nal       •         (The class taken to fulfill the Mathematical Modeling requirement cannot
http://gened.iub.edu/courses/genedcourses.html (Careful selection and completion of courses with a grade of "C" or h may allow double counting within General Education, Profession Education and/or Content Field.)	<b>Option II:</b> Complete a 5 credit science course. •
http://gened.iub.edu/courses/genedcourses.html (Careful selection and completion of courses with a grade of "C" or h may allow double counting within General Education, Profession Education and/or Content Field.) Oral Expression (Select one) (Grade of C or higher required)	Option II: Complete a 5 credit science course.         •         •         (The class taken to fulfill the Mathematical Modeling requirement cannot be counted towards the 5+ credits needed to fulfill the N&M requirement.)
http://gened.iub.edu/courses/genedcourses.html (Careful selection and completion of courses with a grade of "C" or h may allow double counting within General Education, Profession Education and/or Content Field.) Oral Expression (Select one)	Option II: Complete a 5 credit science course.         •
http://gened.iub.edu/courses/genedcourses.html (Careful selection and completion of courses with a grade of "C" or h may allow double counting within General Education, Profession Education and/or Content Field.) Oral Expression (Select one) (Grade of C or higher required)	option II: Complete a 5 credit science course.         •         •         (The class taken to fulfill the Mathematical Modeling requirement cannot be counted towards the 5+ credits needed to fulfill the N&M requirement.)         redits
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)         ANTH-A 122       Interpersonal Communication (S&H)	anigher       Option II: Complete a 5 credit science course.         •       •         (The class taken to fulfill the Mathematical Modeling requirement cannot be counted towards the 5+ credits needed to fulfill the N&M requirement.)         redits       3         3       3         3       3         3       6 credits
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)	Anigher nal       Option II: Complete a 5 credit science course.         •       • <td< td=""></td<>
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)         (Grade of C or higher required)         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)	Anigher nal       Option II: Complete a 5 credit science course.         •       • <td< td=""></td<>
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         English Composition (EC) (Select one)       0-3 cr         (Grade of C or higher required)       0-3 cr	anigher mail       Option II: Complete a 5 credit science course.         •       • <t< td=""></t<>
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         English Composition (EC) (Select one)       0-3 cr         (Grade of C or higher required)       C-3 cr	Anigher nal       Option II: Complete a 5 credit science course.         •       • <td< td=""></td<>
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         English Composition (EC) (Select one)       0-3 cr         (Grade of C or higher required)       C-3 cr	Option II:       Complete a 5 credit science course.         Image: Tredits       0         3       0         3       0         3       0         3       0         3       0         3       0         0       0 <t< td=""></t<>
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         English Composition (EC) (Select one)       0-3 cr         (Grade of C or higher required)       C-3 cr         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR	nigher       Option II: Complete a 5 credit science course.         .       .         .
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         English Composition (EC) (Select one)       0-3 cr         (Grade of C or higher required)       0-3 cr         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR         ENG-W 131EX       Elementary Composition-Exempt	nigher       Option II: Complete a 5 credit science course.         •       •         •
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         English Composition (EC) (Select one)       0-3 cr         (Grade of C or higher required)       C-3 cr         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR	Anigher nal       Option II: Complete a 5 credit science course.         •
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Argumentative Writing-Projects in Reading & Writing	Anigher mail       Option II: Complete a 5 credit science course.         •       . <t< td=""></t<>
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Argumentative Writing-Projects in Reading & Writing         Mittensive Writing Course (IW) (Select one)       3 cr	nigher       Option II: Complete a 5 credit science course.         •       .         redits       .         3       .         3       .         3       .         3       .         Option I: Language Study (WL): Complete the study of an approved single language through the second semester of the second-year level of college-level coursework.         3       .         0       <
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Argumentative Writing-Projects in Reading & Writing	Anigher nal       Option II: Complete a 5 credit science course.         •       . <td< td=""></td<>
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h may allow double counting within General Education, Profession Education and/or Content Field.)         Oral Expression (Select one) (Grade of C or higher required)         ANTH-A 122         Interpersonal Communication (S&H) COLL-P 155         Public Oral Communication EDUC-G 203         Comm. for Youth Serving Professionals (S&H)         CMLT-C 110         Writing the World         ENG-W 131         Reading, Writing & Inquiry I OR         ENG-W 131EX         Elementary Composition-Exempt         ENG-W 170         Intro to Argumentative Writing-Projects in Reading & Writing         Intensive Writing Course (IW) (Select one)         3 cr         EDUC-H 205         Intro to Educational Thought (P: English comp) (S&H)	Anigher nal       Option II: Complete a 5 credit science course.         •
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Argumentative Writing-Projects in Reading & Writing         Intensive Writing Course (IW) (Select one)       3 cr         EDUC-H 205       Intro to Educational Thought (P: English comp)	Option II: Complete a 5 credit science course.         inigher nal       •
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h may allow double counting within General Education, Profession Education and/or Content Field.)         Oral Expression (Select one) (Grade of C or higher required)         ANTH-A 122         Interpersonal Communication (S&H) COLL-P 155         Public Oral Communication EDUC-G 203         Comm. for Youth Serving Professionals (S&H)         CMLT-C 110         Writing the World         ENG-W 131         Reading, Writing & Inquiry I OR         ENG-W 131EX         Elementary Composition-Exempt         ENG-W 170         Intro to Argumentative Writing-Projects in Reading & Writing         Intensive Writing Course (IW) (Select one)         3 cr         EDUC-H 205         Intro to Educational Thought (P: English comp) (S&H)	Option II: Complete a 5 credit science course.         •       •
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Argumentative Writing-Projects in Reading & Writing         Mathematical Course (IW) (Select one)       3 cr         Guide of Cor higher required)       3 cr         CMLT-C 110       Writing the World         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Educational Thought (P: English comp)         (S&H)       EDUC-H 205       Intro to Educational Thought (P: English comp)         (DUC-H 340       Education & American Culture	Option II: Complete a 5 credit science course.
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Argumentative Writing-Projects in Reading & Writing         Mathematical Course (IW) (Select one)       3 cr         Guide of Cor higher required)       3 cr         CMLT-C 110       Writing the World         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Educational Thought (P: English comp)         (S&H)       EDUC-H 205       Intro to Educational Thought (P: English comp)         (DUC-H 340       Education & American Culture	Option II: Complete a 5 credit science course.         inigher nal       •
http://gened.iub.edu/courses/genedcourses.html         (Careful selection and completion of courses with a grade of "C" or h         may allow double counting within General Education, Profession         Education and/or Content Field.)         Oral Expression (Select one)       3 cr         (Grade of C or higher required)       3 cr         ANTH-A 122       Interpersonal Communication (S&H)         COLL-P 155       Public Oral Communication         EDUC-G 203       Comm. for Youth Serving Professionals (S&H)         CMLT-C 110       Writing the World         ENG-W 131       Reading, Writing & Inquiry I OR         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Argumentative Writing-Projects in Reading & Writing         Mathematical Course (IW) (Select one)       3 cr         Guide of Cor higher required)       3 cr         CMLT-C 110       Writing the World         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 131EX       Elementary Composition-Exempt         ENG-W 170       Intro to Educational Thought (P: English comp)         (S&H)       EDUC-H 205       Intro to Educational Thought (P: English comp)         (DUC-H 340       Education & American Culture	Option II: Complete a 5 credit science course.

Information F	luency (IF)	3 credits
EDUC-W 200	Using Computers in Education	3
Diversity in th	<b>5</b>	3 credits
Diversity in th		5 creaits
EDUC-M 300	Teaching in a Pluralistic Society (P: Soph. stat	tus) 3
Enriching Edu	ucational Experiences (EEE)	12 credits
EDUC-M 480	Student Teaching: Secondary	12
I	I. PROFESSIONAL EDUCATION	
(A grade of (	48 credits/2.5 GPA C or higher is required in each course listed	below.)
Prerequisite o	ourses for admission to the TEP	12 credits
EDUC-M 300	Teaching in a Pluralistic Society (P: Sophomore status) <b>(D)</b>	3
EDUC-P 312	Learning Theory into Practice (P: Soph. statu	ıs) 3
EDUC-P 313	Adolescents in a Learning Community (P: Sophomore status)	3
EDUC-W 200	Using Computers in Education (IF)	3
Required Non	-Authorized Course	6 credits
EDUC-A 308	Legal & Ethical Issues for Teachers	3
EDUC-H 205	(P: Sophomore status) Intro to Educational Thought (P: English com	p) 3
EDUC-H 340	(S&H) (IW) OR Education & American Culture	
	(P: English comp & Soph. status) (IW)	
r		
		30 credits
Admission to the	TEP is required.	30 credits
Admission to the	TEP is required. nust be taken before student teaching. Teaching Students with Special Needs:	30 credits
Admission to the These courses n	TEP is required. nust be taken before student teaching.	
Admission to the These courses n EDUC-K 306 Courses must to completion (C o	TEP is required. nust be taken before student teaching. Teaching Students with Special Needs:	
Admission to the These courses n EDUC-K 306 Courses must b completion (C c prerequisite for	TEP is required. nust be taken before student teaching. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching.	3
Admission to the These courses n EDUC-K 306 Courses must b completion (C o prerequisite for Block I and Blo interruption, fro additional seme	TEP is required. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, witho or one semester to the next. Students may ester(s) between the completion of Block II a	3 ut add an
Admission to the These courses n EDUC-K 306 Courses must b completion (C c prerequisite for Block I and Blo interruption, fro additional seme Student Teachi	TEP is required. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, witho om one semester to the next. Students may ester(s) between the completion of Block II and ng (Block III).	3 ut add an and
Admission to the These courses m EDUC-K 306 Courses must b completion (C o prerequisite for Block I and Blo interruption, fro additional seme Student Teachi Block I (Spring EDUC-M 346	TEP is required. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, witho om one semester to the next. Students may ester(s) between the completion of Block II a ng (Block III). only) Exploring Secondary School Science Teach	3 ut add an and <u>8 credits</u> ing 3
Admission to the These courses n EDUC-K 306 Courses must b completion (C o prerequisite for Block I and Blo interruption, fro additional seme Student Teachi Block I (Spring	TEP is required. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, witho om one semester to the next. Students may seter(s) between the completion of Block II and ng (Block III). only)	3 ut add an and <u>8 credits</u>
Admission to the These courses m EDUC-K 306 Courses must b completion (C c prerequisite for Block I and Blo interruption, fro additional seme Student Teachi Block I (Spring EDUC-M 346 EDUC-M 303 EDUC-M 469	TEP is required. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, withon om one semester to the next. Students may ester(s) between the completion of Block II and ng (Block III). only) Exploring Secondary School Science Teach Field Experience I Content Area Literacy	3 ut add an and <u>8 credits</u> <i>ing</i> 3 2
Admission to the These courses m EDUC-K 306 Courses must b completion (C c prerequisite for Block I and Blo interruption, fro additional seme Student Teachi <u>Block I (Spring</u> EDUC-M 346 EDUC-M 303	TEP is required. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, withon om one semester to the next. Students may ester(s) between the completion of Block II and ng (Block III). only) Exploring Secondary School Science Teach Field Experience I Content Area Literacy Methods of Teaching Jr/Middle/Sr High School	3 ut add an and <u>8 credits</u> ing 3 2 3 3 <u>6 credits</u>
Admission to the These courses m EDUC-K 306 Courses must b completion (C c prerequisite for Block I and Blo interruption, fro additional seme Student Teachi Block I (Spring EDUC-M 346 EDUC-M 303 EDUC-M 469 Block II (Fall on	TEP is required. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, withon om one semester to the next. Students may ester(s) between the completion of Block II and ng (Block III). only) Exploring Secondary School Science Teach Field Experience I Content Area Literacy	3 ut add an and <u>8 credits</u> ing 3 2 3 3 <u>6 credits</u>
Admission to the These courses m EDUC-K 306 Courses must b completion (C c prerequisite for Block I and Blo interruption, fro additional seme Student Teachi <u>Block I (Spring</u> EDUC-M 346 EDUC-M 303 EDUC-M 469 <u>Block II (Fall on</u> EDUC-M 446 EDUC-M 403 EDUC-S 303	TEP is required. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, witho om one semester to the next. Students may seter(s) between the completion of Block II a ng (Block III). only) Exploring Secondary School Science Teach Field Experience I Content Area Literacy Methods of Teaching Jr/Middle/Sr High Scho Science Field Experience II Classroom Management	3 ut add an and <u>8 credits</u> ing 3 2 3 <u>6 credits</u> ool 3 2 1
Admission to the These courses m EDUC-K 306 Courses must b completion (C c prerequisite for Block I and Blo interruption, fro additional seme Student Teachi Block I (Spring EDUC-M 346 EDUC-M 303 EDUC-M 469 Block II (Fall on EDUC-M 446 EDUC-M 403 EDUC-S 303 Block III (Stude Students may n teaching. (Exce	TEP is required. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, witho om one semester to the next. Students may seter(s) between the completion of Block II a ng (Block III). only) Exploring Secondary School Science Teach Field Experience I Content Area Literacy Methods of Teaching Jr/Middle/Sr High Scho Science Field Experience II Classroom Management	3 ut add an and <u>8 credits</u> ing 3 2 3 <u>6 credits</u> ool 3 2 1 <u>13 credits</u> student
Admission to the These courses m EDUC-K 306 Courses must b completion (C c prerequisite for Block I and Blo interruption, fro additional seme Student Teachi Block I (Spring EDUC-M 346 EDUC-M 303 EDUC-M 469 Block II (Fall on EDUC-M 446 EDUC-M 403 EDUC-S 303 Block III (Stude Students may m	TEP is required. Inust be taken before student teaching. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, withon om one semester to the next. Students may ester(s) between the completion of Block II and (Block III). only) Exploring Secondary School Science Teach Field Experience I Content Area Literacy (IV) Methods of Teaching Jr/Middle/Sr High School Science Field Experience II Classroom Management Int Teaching) bot enroll in other classes while completing ption: EDUC-M 202 Job Search Strategies f	3 ut add an and <u>8 credits</u> ing 3 2 3 <u>6 credits</u> ool 3 2 1 <u>13 credits</u> student
Admission to the These courses m EDUC-K 306 Courses must b completion (C c prerequisite for Block I and Blo interruption, fro additional seme Student Teachi Block I (Spring EDUC-M 346 EDUC-M 303 EDUC-M 469 Block II (Fall on EDUC-M 446 EDUC-M 403 EDUC-M 403 EDUC-S 303 Block III (Stude Students may n teaching. (Exce Educators)	TEP is required. Inust be taken before student teaching. Teaching Students with Special Needs: Secondary Classrooms be taken in prescribed blocks. Successful or higher) of all courses in each block is a the next block and student teaching. ck II must be completed in sequence, withon om one semester to the next. Students may ester(s) between the completion of Block II and (Block III). only) Exploring Secondary School Science Teach Field Experience I Content Area Literacy (IV) Methods of Teaching Jr/Middle/Sr High Scho Science Field Experience II Classroom Management Int Teaching) Tot enroll in other classes while completing	3 ut add an and <u>8 credits</u> ing 3 2 3 <u>6 credits</u> sol 3 2 1 <u>13 credits</u> student or

## III. EARTH/SPACE SCIENCE CONTENT

50 credits/2.5 GPA				
(A grade	of C minus or higher is required in each course.)			
	e department regarding when courses will be offere	ed.)		
<b>Required Scie</b>				
BIOL-E/L 111	Foundations of Biology: Diversity, Evolution &	3		
	Ecology (N&M) OR			
BIOL-E/L 11				
	(P: HS or college chemistry <u>) <b>(N&amp;M)</b></u>			
CHEM-C 117	Principles of Chem & Biochem I (P: CHEM-C 101-	3		
	C 121 or C 103 or chemistry and math placement			
	exams or consent of the department) (N&M) AND	0		
CHEM-C 127 CHEM-S	Principles of Chem & Biochem I Lab <b>OR</b> 117 Principles of Chem & Biochem I-Honors	2 5		
GEOG-G 304	Physical Climatology (P: G107, G109, G185 or	3		
0200 0 004	G208; or consent of instructor)	0		
HPSC-X 102	Science Revolutions: Plato to NATO (S&H, WC)	3		
	OR	-		
HPSC-X 222	Big Science in 20 <sup>th</sup> Century <b>(S&amp;H)</b>			
PHYS-P 201	General Physics I (P: MATH-M 26) (N&M) OR	5		
PHYS-P 221	Physics I			
	(P/C: MATH-M/S 211 or consent of instructor)			
Earth/Space S		dits		
	dits from the following:			
AST-A 100	The Solar System (N&M)	3		
AST-A 102	Gravity, the Great Attractor: Evolution of Planets,	3		
ACT A 102	Stars & Galaxies (N&M) The Secret for Life in the Universe (NBM)	2		
AST-A 103 AST-A 105	The Search for Life in the Universe ( <u>N&amp;M)</u> Stars & Galaxies ( <b>N&amp;M</b> )	3 3		
AST-A 105 AST-A 115	Birth & Death of the Universe (N&M)	3		
	dits from the following:	0		
GEOL-G/S 103	Earth Science: Materials & Processes (N&M)	3		
GEOL-G 104	Evolution of the Earth (N&M)	3		
GEOL-G 105	Earth: Our Habitable Planet (N&M)	3		
GEOL-G 111	Physical Geology (P: HS or College CHEM) (N&M)	3		
GEOL-G 114	Dinosaurs & Their Relatives ( <u>N&amp;M)</u>	3		
GEOL-G 116	Our Planet & Its Future (N&M)	3		
GEOL-G/S 121	Meteorites & Geological Processes in Planets	3		
	<u>(N&amp;M)</u>	0		
GEOL-G 131 GEOL-G 141	Oceans & Our Global Environment <u>(N&amp;M)</u> Earthquakes & Volcanoes (N&M)	3 3		
GEOL-G 171	Environmental Geology (N&M)	3		
Complete the fe		0		
GEOL-G 221	Intro to Mineralogy (P/C: College CHEM) (Fall only)	4		
GEOL-G 222	Intro to Petrology (P: G 221) (Spring only)	4		
Complete 3 cre	dits from the following:			
GEOL-G 300	Environmental & Urban Geology	3		
	(P: 1 GEOL or physical GEOG course)			
GEOL-G 302	Dev of the Global Environ (P: College AST, CHEM or	3		
0.501 0.000	PHYS & MATH-M 118 or higher)			
GEOL-G 323	Structural Geol. (P: G 104 or G 112 P/C: G 222)	4		
	(Spring only)	4		
GEOL-G 334	Principles of Sedimentology & Stratigraphy (P: G 222)	4		
Complete 3 cre	<i>(Fall only)</i> <u>dits</u> from the following:			
GEOL-G 404	Geobiology (P: One of BIOL-L 111, GEOL-G 308	3		
0202-0404	or GEOL-G 334 or consent of instructor)	5		
GEOL-G 411	Invert. Paleontology (P: BIOL-L 111 or L112 and	3		
01010	one 300 or 400 level BIOL or GEOL)	•		
GEOL-G 415	Principles of Geomorphology (P: G 222, College	3		
	CHEM & MATH or consent of instructor)			
GEOL-G 417	Optical Mineralogy (P: G 222)	3		
GEOL-G 418	Igneous & Metamorphic Petrology	3		
	(P: G 222 or equivalent)			
GEOL-G 424	Geological Information Systems	3		
GEOL-G 427	Intro to X-ray Mineralogy (P: G 221)	3		
GEOL-G 444	Methods in Analytical Geochemistry)	1-2		
GEOL-G 454	Fund of Plate Tectonics	3		
Complete et l	(P: G 323 & G 334 or consent of instructor)			
400 level.	st <u>8 additional credits</u> of GEOL at the 300 or			
-100 level.				

IV. ELECTIVES (To total 120 credits)

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