



Northwest Mississippi
Community College



THE UNIVERSITY of
MISSISSIPPI

**CORE CURRICULUM FOR TEACHER EDUCATION
SCHOOL OF EDUCATION
Secondary Education - Mathematics Education
2014-2015**

This curriculum is offered for the student working toward an Associate of Arts degree from Northwest Mississippi Community College who intends to continue studies toward the Bachelor of Arts degree in Education with The University of Mississippi.

Freshman/Sophomore courses available at Northwest Mississippi Community College - DeSoto Center

Core Curriculum - 42-45 hours

First-Year Writing (6 hours)

Northwest- ENG 1113 and ENG 1123 6 hours

Social and Behavioral Sciences (9 hours)

General Psychology I 3 hours

Northwest- PSY 1513 General Psychology I

History (U.S., European, and/or Western Civ. 101, 102, 105, 106 preferred) 6 hours

Northwest- HIS 1113, HIS 1123, HIS 2213, HIS 2223

Mathematics and Natural Sciences (15 hours)

Physical Science with laboratory (Physics, Astronomy, or Physical Science II) *3-4 hours

Northwest- PHY 2413 & PHY 2411, PHY 1113 & 1111, or PHY 2253 & 2251

Biological Science with laboratory *3-4 hours

Northwest-BIO 1113 & 1111, BIO 1123 & 1121, BIO 1133 & 1131,

BIO 1143 & 1141, BIO 1213 & BIO 1211, BIO 2513 & BIO 2511

BIO 2523 & BIO 2521, BIO 2414/2410, BIO 2424/2420, BIO 2924/2920

College Algebra or more advanced mathematics course 3 hours

Northwest- MAT 1313 College Algebra, MAT 1613 Calculus I

May not include MATH 100 (*Northwest-MAT 1213 College Mathematics or MAT 1233 Intermediate Algebra*)

MATH 115 (*Northwest-MAT 2323 Elementary Statistics*)

MATH 245 (*Northwest-MAT 1723 Real Number System*)

MATH 246 (*Northwest-MAT 1733 Geometry, Measurement & Probability*)

Science Elective (Geology, Chemistry, or Physical Science I) *3 hours

Northwest- CHE 1213, CHE 1223, CHE 1313, CHE 1323, PHY 2243

Mathematics or Natural Science Elective* 3 hours

(may include Math 115- Elementary Statistics or any 3-hour natural science lecture course not already used toward the core)

Northwest- MAT 1323, MAT 1513, MAT 1613, MAT 1623, MAT 2323,

BIO 1113, BIO 1123, BIO 1133, BIO 1143, BIO 1213, BIO 2513, BIO 2523,

CHE 1213, CHE 1223, CHE 1313, CHE 1323,

PHY 1111, PHY 2243, PHY 2253, PHY 2413

May not include MATH 100 (*Northwest-MAT 1213 College Mathematics or MAT 1233 Intermediate Algebra*)

MATH 245 (*Northwest-MAT 1723 Real Number System*)

MATH 246 (*Northwest-MAT 1733 Geometry, Measurement & Probability*)

***UM allows credit for only one Biology I, Botany I, or Zoology I class (BIO 1113, BIO 1133, BIO 1313).**

Freshman and Sophomore Level Curriculum Courses available from NWCC, continued

Humanities and Fine Arts (12 hours)

Literature		3 hours
	<i>Northwest-ENG 2223, ENG 2233, ENG 2323, ENG 2333, ENG 2423, ENG 2433</i>	
Literature		3 hours
	<i>Northwest-ENG 2223, ENG 2233, ENG 2323, ENG 2333, ENG 2423, ENG 2433</i>	
Fine Arts -- fine arts history and/or appreciation of art, music, or theatre		3 hours
	<i>Northwest- ART 1113, MUS 1113, SPT 2233</i>	
Humanities -- to be selected from courses in African-American Studies, Classics, Gender Studies, History, Linguistics, Literature, Modern Languages, Philosophy, Religion, or Southern Studies		3 hours
	<i>Northwest- HIS 1113, HIS 1123, HIS 2213, HIS 2223</i>	
	<i>Northwest- ENG 2223, ENG 2233, ENG 2323, ENG 2333, ENG 2423, ENG 2433, ENG 2613</i>	
	<i>Northwest- MFL 1213, MFL 1223, MFL 2213, MFL 2223</i>	
	<i>Northwest- PHI 1113, PHI 1133, PHI 2113, PHI 2143, PHI 2713</i>	

Content Area--Required Lower Division Courses - 12 hours

MATH 261	Calculus I (with minimum grade of "C")	3 hours
	<i>Northwest- Math 1613</i>	
MATH 262	Calculus II (with minimum grade of "C")	3 hours
	<i>Northwest- Math 1623</i>	
MATH 263	Calculus III (with minimum grade of "C")	3 hours
	<i>Northwest- Math 2613</i>	
MATH 264	Calculus IV	3 hours
	<i>Northwest- Math 2623</i>	

Lower Division Related Field - 3 hours

CSCI 111	Computer Programming I	3 hours
	<i>Northwest- CSC 1613 (JAVA I)</i>	
	<i>(a "C" grade or higher is required for related fields)</i>	

*Mathematics Education students may apply not more than 61 semester hours of community college credit to this degree and should select electives wisely. Students who use content area courses to satisfy core requirements will need extra hours of electives to graduate.

**CSC 1113 or a higher level computer course is required for Northwest Mississippi Community College graduation but is not required for The University of Mississippi curriculum. The course may be used as 3 hours of lower division elective credit.

***SPT 1113 Public Speaking is required for Northwest Mississippi Community College graduation but is not required for the University of Mississippi curriculum. The course may be used as 3 hours of lower division elective credit.

IMPORTANT NOTE: The University of Mississippi-DeSoto Center strongly recommends that students provide test scores before transferring and especially if applying for scholarships. Take the CASE test, or provide ACT score with (at least a 21 composite with no subtest scores lower than 18) or an appropriate SAT score (860 composite) are required for admission into the Teacher Education Program (TEP) and for most Education scholarships.

NEW PRAXIS TEST: Core Academic Skills for Educators (CASE)

Please visit the Praxis website at <http://www.ets.org/praxis> and see your academic counselor for more information.

**JUNIOR & SENIOR LEVEL CURRICULUM
SECONDARY EDUCATION - MATHEMATICS EDUCATION**

Junior Level Professional Courses and Junior and Senior Level Content Courses

Content Area–Required Upper Division - 24 hours

MATH 301	Discrete Mathematics (prerequisite is Math 261: Unified Calculus & Analytic Geometry I*)	3 hours
MATH 305	Foundations of Mathematics (prerequisite is Math 262: Unified Calculus & Analytic Geometry II*)	3 hours
MATH 319	Introduction to Linear Algebra (prerequisite is Math 262: Unified Calculus & Analytic Geometry II*)	3 hours
MATH 375	Introduction to Statistical Methods (prerequisite is Math 261: Unified Calculus & Analytic Geometry I*)	3 hours
MATH 390	Techniques in Teaching Secondary Level Mathematics (TEP Mathematics Ed. majors only)	3 hours
MATH 425	Introduction to Abstract Algebra (prerequisite is Math 263: Unified Calculus & Analytic Geometry III*)	3 hours
MATH 533	Topics in Euclidean Geometry (prerequisite is Math 305: Foundations of Mathematics*)	3 hours
MATH 540	History of Mathematics (prerequisite is Math 305: Foundations of Mathematics*)	3 hours

**All prerequisite courses require a minimum grade of “C.”*

Upper Division Related Field - 3 hours

EDCI 557	Computers in Education <i>(a “C” grade or higher is required for related fields)</i>	3 hours
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Electives–12 hours (students who use content classes to satisfy core courses may need more to assure 122 semester hour graduation requirement)

<i>Department</i>	<i>Number</i>	<i>Course Title</i>	<i>Hours</i>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Professional Education

Background Checks. All candidates in the School of Education must have a background check performed prior to beginning field experiences. Students may go to http://education.olemiss.edu/safe/background_check.html to begin the background check process. A fee of \$40 will be charged to the candidate. Only one background check is required while in the teacher education program. However, if a candidate is not enrolled at the University of Mississippi for more than one calendar year, a second background check will be required. If a background check reveals a criminal history, the candidate may not be allowed to participate in field experiences, which means he/she will not be able to complete the program.

Admission to Phase I of the Teacher Education Program (TEP)

Candidates can enter Phase I: Core Curriculum as an incoming freshman or by transferring with a minimum 2.5 GPA. Criteria for admission into phases two and three are described below.

Junior Level Phase I TEP Education Courses and Required Field Experiences (some Day Schedule)

EDCI 352	Education, Society, and the K-12 Learners (<i>Education majors only. 25 hours field experience</i>)	3 hours
EDSP 308	Introduction to Special Education (<i>Education majors only</i>)	3 hours

Admission to Phase II of the Teacher Education Program (TEP)

1. Completion of Core curriculum and EDCI 352.
2. GPA of 2.75 or higher on Core.
3. Appropriate scores on Praxis I (taken before 12/31/2013) or CASE (beginning 01/01/2014), or ACT or SAT
4. Must maintain a "C" or better in all professional education and general education courses.
5. EDCI 352 must be completed with a "C" or better to enroll in EDCI 353.

Junior Level Phase II TEP Education Courses and Required Field Experiences (some Day Schedule)

*EDCI 353	Effective Classroom Practice (<i>30 hours field experience</i>)	3 hours
*EDSP 327	Nature and Needs with Mild/Moderate Disability (<i>10 hours field experience</i>)	3 hours

***Requires official admission to Phase II of the Teacher Education Program**

Fall, Senior Year - Phase II TEP Mathematics Education and Required Field Experience (Day Schedule)

Candidates in secondary education are required to complete 40 hours of field experience during this semester

**EDSE 400	Principles of Education (<i>40 hours field experience</i>)	3 hours
**EDSE 445	Special Methods I: Mathematics (<i>Oxford Campus</i>)	3 hours

****Requires completion of EDCI 353 and official admission to Phase II of the Teacher Education Program.**

Admission to Phase III of the Teacher Education Program (TEP) – Student Teaching

1. Admission to Phase II: Professional Education Core
2. A minimum grade of "C" in professional education courses. If this minimum of "C" is not met, the course(s) must be retaken before enrolling in the next level of professional education courses
3. Completion of all courses in the teaching field (not including electives) with a minimum grade of "C".
4. Completion of 15 hours in residency at The University of Mississippi (includes regional campuses of The University of Mississippi—DeSoto Center, Tupelo, Booneville, and Grenada)
5. Completion of courses taken by correspondence for admission to student teaching. The grade must be on file prior to admission.
6. Evidence of professional liability insurance

Spring, Senior Year - Phase III TEP - Mathematics Education (Day Schedule)

***EDLE 480	Student Teaching: Secondary Education	9 hours
***EDCI 419	Introduction to Classroom Management and Assessment Practices (EDEL 519 will not substitute for this class)	3 hours

*****Requires completion of EDSE 400 and EDSE 445 and official admission to Phase III of the TEP.**

General Requirements for Completing the B. A. E. in Mathematics Education:

1. At least 122 semester hours
2. At least 30 semester hours of residence credit in School of Education (includes regional campuses of The University of Mississippi—DeSoto Center, Tupelo, Booneville, and Grenada)
3. Not more than 33 semester hours of correspondence and extension credit
4. Not more than 61 semester hours of transfer credit from community college to be applied toward the degree.