

MATHEMATICS (BA) SECONDARY TEACHING OPTION CHECKLIST

This checklist is provided for student use only. It does not represent an official documentation of a student's progress towards completion of their degree program. If you have questions about this sheet please contact the Student Success Center at (719) 255-3260.

The Math program requires a minimum of 120 credit hours to complete. Students must have a minimum grade of C in all Math course work taken, and a minimum 2.0 GPA in all course work taken in order to graduate. Students must complete at least 45 credit hours of courses numbered 300+. Students opting for the Secondary Teaching Option should attend a Group Advising Session with College of Education (contact 255-4121 for a list of days and times) prior to the end of their freshman year. Students must complete an Exit Interview prior to graduation.

MATH CORE COURSES – All courses in this section must be completed.

<input checked="" type="checkbox"/>	COURSE NUMBER & TITLE	HRS	PREREQUISITES/COREQUISITES
	MATH 135 Calculus I	4	MATH105 or score 10 on Calc. Readiness Exam
	MATH 136 Calculus II	4	MATH135
	MATH 215 Discrete Mathematics	3	MATH135
	MATH 235 Calculus III	4	MATH136
	MATH 310 Statistics for the Sciences OR MATH 381 Intro. to Probability & Statistics	3	MATH135 MATH235
	MATH 311 Theory of Numbers	3	MATH136, MATH215
	MATH 313 Intro. to Linear Algebra	3	MATH135
	MATH 340 Intro. to Differential Equations	3	MATH235
	MATH 414 Modern Algebra I (fall only)	3	MATH215, MATH313; MATH311 strongly recommended
	MATH 421 Higher Geometry	3	MATH311 or 313
	MATH 431 Modern Analysis (fall only)	3	MATH235, MATH215; MATH341 recommended
	MATH 448 Mathematical Modeling OR MATH 485 Stochastic Modeling (spring only)	3	MATH313, MATH340, MATH310 or 381. MATH381 or ECE3610.
	TOTAL	39	

MATH ELECTIVES – Complete 6 credit hours of MATH courses numbered 310 and above.

<input checked="" type="checkbox"/>	COURSE NUMBER & TITLE	HRS	PREREQUISITES/COREQUISITES
	TOTAL	3	

WRITING SKILLS – All courses in this section must be completed. If you do not place in to ENGL 131 you need to take ENGL 099 as a prerequisite.

<input checked="" type="checkbox"/>	COURSE NUMBER & TITLE	HRS	PREREQUISITES/COREQUISITES
	ENGL 131 Rhetoric & Writing I	3	Score of 19+ on ACT English or 450+ on SAT Verbal
	ENGL 141 Rhetoric & Writing II	3	ENGL131 or score of 29+ on ACT English or 650+ on SAT Verbal
	Writing Competency Portfolio	N/A	Complete 1 year prior to expected graduation
	TOTAL	6	

HUMANITIES ELECTIVES – Complete 12 credit hours of Humanities courses. An HUM course numbered 3XX, either PHIL 344 or 443 and either PHIL 100 or 102 must be completed. The other 3 credit hours should be completed from the Humanities list from the LAS section of the Course Bulletin.

<input checked="" type="checkbox"/>	COURSE NUMBER & TITLE	HRS	PREREQUISITES/COREQUISITES
	PHIL 344 Symbolic Logic OR PHIL 443 Logical Theory	3	None for PHIL344 PHIL344 for PHIL443
	HUM 3XX	3	See Bulletin for specific course prerequisites
	PHIL 100 Intro. to Philosophy OR PHIL 102 Ethics OR PHIL 112 Critical Thinking	3	None

	TOTAL	12	

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SOCIAL SCIENCE ELECTIVES – Complete 12 credit hours of Social Science courses. PSY 100 must be one of the Social Science courses. Complete the remaining 8 credit hours from the Social Science list from the LAS section of the Course Bulletin.

<input checked="" type="checkbox"/>	COURSE NUMBER & TITLE	HRS	PREREQUISITES/COREQUISITES
	PSY 100 General Psychology	4	None
	TOTAL	12	

NATURAL SCIENCE ELECTIVES – Complete 12 credit hours of Natural Science courses from the Natural Science list from the LAS section of the Course Bulletin. Please note that students can also complete PES111, 112, 115 & 215 in addition to the approved list.

<input checked="" type="checkbox"/>	COURSE NUMBER & TITLE	HRS	PREREQUISITES/COREQUISITES
	TOTAL	12	

EDUCATION COURSES – Complete 37-40 hours of Education Courses. Education Courses will be dictated by the College of Education. Students should attend a Group Advising Session (contact 255-4121 for a list of days and times), prior to the end of their freshman year to find out exactly which courses to take and the process for being admitted to the Teacher Education Program.

<input checked="" type="checkbox"/>	COURSE NUMBER & TITLE	HRS	PREREQUISITES/COREQUISITES
	T ED 300 Intro to Contemporary American Education	3	None
	T ED 301 Early School Experience	3	T ED 300, prior or concurrent
	SPED 300 Introduction to Special Education	3	Acceptance to 1 st Tier
	T ED 452 Educational Psychology	3	Acceptance to 1 st Tier
	T ED 470 School Experience – Secondary	4-5	Acceptance to 2 nd Tier
	T ED 471 Methods for Secondary Education	2	Acceptance to 2 nd Tier
	T ED 472 Teaching Reading and Writing in the Content Area	3	Acceptance to 2 nd Tier
	T ED 479 Secondary Curriculum, Instruction and Evaluation	3	Acceptance to 2 nd Tier
	T ED 492 Secondary Math Methods	3	Acceptance to 2 nd Tier
	T ED 473 Student Teaching – Secondary	12	Acceptance to 2 nd Tier, pass Praxis II test
	TOTAL	39-40	

MATH Office, Engineering Bldg., Room 274
 Phone: 719-255-3311 Email: mathinfo@math.uccs.edu
 Web: mathweb.uccs.edu

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