University of Maryland University College

Associate of Arts Mathematics Curriculum

Campus: Asia/Europe On-site and Online

Degree Objective - This two-year program prepares students to accept positions that require a comprehensive understanding of calculus and/or statistics. http://www.ed.umuc.edu/undergrad/associate/mathematics_curriculum.html

Academic Residency - At least 15 credits must be taken with UMUC, with at least 9 credits in mathematics and math-related courses. An overall grade point average (GPA) of C (2.0) is required. All core courses must have a grade of C or better.

Portable Jobs and Careers - This degree can assist in obtaining portable jobs in many fields: aerospace as an aircraft flight engineer and engineering technician, business, finance, and administration as an actuary, applied mathematician, statistician, cost estimator, and tax preparer; education as an instructor/teacher; health and human services in research, or in any field which requires the ability to reason carefully and express oneself clearly.

DEGREE REQUIREMENTS

General Education Requirements (Total of 35 credits)

Communications (Total of 9 credits)	**Suggested Courses**		**Credits Required**	**Credits Completed**
WRTG 101 is a required course (To be taken within first 18 credits) Placement exam is **required** before registering for WRTG 101 (Placement may require EDCP 103 Fundamentals of Writing and Grammar as a prerequisite for WRTG 101)	WRTG 101	Introduction to Writing (3) **(Required)**	3	
All 3-credit WRTG courses (except WRTG 486A or 486B); ENGL102, 294, 303, and 485; and JOUR 201 apply	WRTG 291	Expository and Research Writing (3) (Recommended)	3	
All 3-credit COMM, SPCH, and WRTG courses (except 486A and 486B); ENGL 102, 281, 294, 303, 384, and 485; and JOUR 201 apply	WRTG 391 SPCH 101	Advanced Expository and Research Writing (3) Introduction to Public Speaking (3) (Recommended)	3	
Arts and Humanities **(Total of 6 credits from two different disciplines)**				
One 3-credit course that offers a historical perspective (any 3-credit ARTH or HIST)	ARTH 334 HIST 157	Understanding Movies (3) History of the United States Since 1865 (3)	3	
One 3-credit course chosen from the following disciplines: ARTH, ARTT, ASTD (not all apply), GRCO, HIST, HUMN, MUSC, PHIL, THET, dance, literature, or foreign language (Discipline must be different from first course)	PHIL 140 GERM 111 SPAN 111 ITAL 111	Contemporary Moral Issues (3) Elementary German I (3) Elementary Spanish I (3) Elementary Italian I (3)	3	
Behavioral and Social Sciences **(Total of 6 credits from two different disciplines)**				
One 3-credit course each in two of the following disciplines: AASP (AASP 201 only), ANTH, ASTD (not all apply), BEHS, CCJS, ECON, GEOG, GERO, GVPT, PSYC, SOCY, or WMST (WMST 200 only). Note: Not all CCJS and GERO courses apply.	ANTH 102 ECON 201 GVPT 170 PSYC 100 SOCY 100	Introduction to Anthropology: Cultural Anthropology (3) Principles of Macroeconomics (3) American Government (3) Introduction to Psychology (3) Introduction to Sociology (3)	3	
Second course from above list (Discipline must be different from first course)		Second course from above list (Discipline must be different from first course)	3	
Mathematics (Total of 3 credits)				
Placement exam required before registering for MATH courses except MATH 103 for which the placement exam is highly recommended. (To be taken within first 18 credits.)	MATH 103 MATH 107	College Mathematics (3) (Or higher MATH) College Algebra (3)	3	
Biological and Physical Sciences **(Total of 7 credits to include one lab)**				
Courses from the following disciplines satisfy the requirement, and must include one lab course: ASTR, BIOL, CHEM, GEOL, NSCI, PHYS, biotechnology, botany, entomology, general science, and zoology (Or other course with lab)	BIOL 101 and BIOL 102 CHEM 103 GEOL 100 and GEOL 110 NSCI 100 and NSCI 101	Concepts of Biology (3) Laboratory in Biology (1) General Chemistry I (4) Physical Geology (3) Physical Geology Laboratory (1) Introduction to Physical Science (3) Physical Science Laboratory (1)	4	
Courses from the following disciplines satisfy the requirement: ASTR, BIOL, CHEM, GEOL, NSCI, PHYS, biotechnology, botany, entomology, general science, and zoology (Or other course)	BIOL 101 GEOL 100 NSCI 100 PHYS 121	Concepts of Biology (3) Physical Geology (3) Introduction to Physical Science (3) Fundamentals of Physics I (3)	3	
Interdisciplinary or Emerging Issues (Total of 4 credits)				
LIBS 150 is a required course (To be taken within first 18 credits)	LIBS 150	Introduction to Research (1) **(Required)**	1	
One course chosen from either IFSM 201 or CMST 303	IFSM 201 CMST 303	Concepts and Applications of Information Technology (3) Advanced Application Software (3)	3	

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18-20 required credits chosen from MATH 130, MATH 131, and MATH 132 (or MATH 140 and MATH 141); MATH 240 (or MATH 246); MATH 241; and STAT 230 (or STAT 200)	MATH 140 MATH 141 MATH 240 MATH 241 STAT 200 STAT 230	Calculus (4) Calculus II (4) Introduction to Linear Algebra (4) Calculus III (4) Introduction to Statistics (3) Introduction to Statistics or Business Statistics (3)	18-20	
Mathematics-related Courses (Total of 3 credits)				
Three credits chosen from any ACCT course; any FINC course; CHEM 103 and 113; CMIS 102, CMIS 141, CMIS 160 (or CMIS 170 or CMSC 150), and CMIS 241 (or CMIS 242); ECON 201 and ECON 203; any MATH course numbered 108 or higher; and PHYS 111 or higher	CMIS 102 ECON 201 ECON 203 FINC 330 PHYS 121	Introduction Problem Solving & Algorithm Design (3) Principles of Macroeconomics (3) Principles of Microeconomics (3) Business Finance (3) Fundamentals of Physics I (3)	3	
Electives (Total of 2-4 credits)				
Any courses related to interests and goals Complete prerequisites prior to enrolling for courses	MATH 108	Trigonometry and Analytical Geometry (3)	2-4	
Total Credits			**60**	

Last Revised: 4 Aug 2011