# College Document # \_COAS 058\_\_ UCC Document # \_\_\_\_\_ Date Received \_\_\_\_\_

# **EFFECTIVE CATALOG YEAR 2010-2011**

COLLEGE/SCHOOL : COAS

Current Catalog Page(s) Affected 86, 105

**Program:** Add: <u>X</u> Change: <u>Attach new/changed Program of Study description and 4-year plan. If in current catalog, copy and paste the text from indicate changes in red.</u>

Justification: This revision is to follow the new guideline for BA majors suggested by the Dean of the College of Arts and Sciences. The 6 SCH for required foreign language are added, it must be taken from 12 SCH Liberal Arts Electives or 8 SCH Electives.

### Degree Requirements for the BA with a Major in Mathematics

- Hours Required: A minimum of 120 semester credit hours (SCH): 45 hours must be advanced, and fulfillment of degree requirements as specified in the "<u>Requirements for Graduation</u>" section of this catalog.
- University Core Curriculum: 42 SCH as outlined in the suggested plans and as specified in the "<u>Requirements for Graduation</u>". MATH <u>2371</u> must be taken as part of the core.
- 3. **Major: 40** SCH including 1 SCH excess in the core, COSC <u>1136</u>, COSC <u>1336</u>, MATH <u>2414</u>, <u>2415</u>, <u>3310</u>, <u>3330</u>, <u>3360</u>, <u>3365</u>, <u>4310</u>, <u>4335</u>, <u>4345</u> and 6 SCH from any 4000 level MATH course.
- 4. **Minor: A minimum of 18 SCH from one discipline** at least twelve of which must be at the 3000-4000 level. See <u>Appendix C</u>.
- 5. Liberal Arts Electives: 12 SCH, at least 6 of which must be at the 3000-4000 level, selected from arts, economics, humanities, natural sciences and social sciences. Courses must be outside the major and minor unless seeking a double major.
- 6. Electives: 8 SCH.
- 7. 6 SCH Foreign Language must be taken from 12 SCH Liberal Arts Electives or 8 SCH Electives.

Approvals:	Signature	Date
Chair Department Curriculum Committee		
Chair Department		
Chair College Curriculum Committee		
Dean		

# BACHELOR OF ARTS MAJOR IN MATHEMATICS

Following is **one** suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with

program decisions and enrollment. Students are responsible for reviewing the Program of Study Requirements.

\*See <u>Appendix A</u> Core Curriculum and Optional Course Information.

\*\* See <u>Appendix C</u> for approved list of minors and requirements.

FALL			HOURS	SPRING			HOURS
FRESHMAN YEAR				FRESHMAN YEAR			
ENGL	1301	English Composition I	3	ENGL	1302	English Composition II	3
HIST	1301	<u>The U.S. to 1877</u>	3	HIST	1302	The U.S. Since 1877	3
MATH	2413	<u>Calculus I</u>	4	MATH	2414	Calculus II	4
		Natural Science*	4			Natural Science*	4
		Activity/Wellness*	<u>1</u>			Visual/Performing Arts**	<u>3</u>
Total			15				17
SOPHOMORE YEAR			SOPHOMORE YEAR				
ENGL		Survey of Literature*	3	MATH	3330	Differential Equations	3
COSC	1136	Fundamentals of Programming Lab	1	MATH	3360	Statistical Analysis	3
COSC	1336	Fundamentals of Programming	3	MATH	3365	Discrete Mathematics	3
MATH	2371	Communications in Math	3	PSCI	2306	American State Government	3
MATH	2415	Calculus III	4			Minor Curriculum*	<u>3</u>
PSCI	2305	American National Govt	<u>3</u>				
Total			17				15
	R YEAR			JUNIOR			
MATH	4335	Advanced Calculus	3	MATH	4310	Abstract Algebra	3
MATH	3310	Introduction to Linear Algebra	3			Elective <sup>3</sup>	3
		Soc/Behavioral Science*	3			Elective <sup>3</sup>	3
		Minor Curriculum**	3			Adv Minor Curriculum**	3
		Liberal Arts Elective <sup>1,3</sup>	<u>3</u>			Liberal Arts Elective <sup>1,3</sup>	<u>3</u>
Total			15				15
SENIOR YEAR				SENIOR YEAR			
MATH		Advanced Math Elective <sup>2</sup>	3	MATH	4345	Complex Variables	3
MATH		Advanced Math Elective <sup>2</sup>	3	MATH	3195	Seminar (Free Elective)	1
		Advanced Liberal Arts Elective <sup>1</sup>	3			Advanced Liberal Arts Elective <sup>1</sup>	3
		Adv Minor Curriculum**	3			Adv Minor Curriculum**	3
MATH	3195	Seminar (Free Elective)	<u>1</u>			Adv Minor Curriculum**	<u>3</u>

#### TOTAL SEMESTER CREDIT HOURS: 120

<sup>1</sup>Liberal Arts Electives, select 12 SCH with at least six at the 3000-4000 level from arts, economics, humanities, natural sciences and social sciences. Courses must be outside the major and minor unless seeking a double major.

<sup>2</sup>Advanced Math Electives, select 6 SCH from any 4000 level MATH course.
<sup>3</sup>6 SCH Foreign Language must be taken from 12 SCH Liberal Arts Electives or 8 SCH Electives.

Actual degree plans may vary depending on availability of courses in a given semester. Some courses may require prerequisites not listed.