



**Year 2****Fall – Semester 3 (credit hours: 14)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2335	Transition to Advanced Mathematics	3	
MATH	2471	Calculus III	4	<a href="#">MATH2603</a>
		LD UCA Core <sup>1</sup>	3	<a href="#">core link</a>
		LD UCA Core (Natural Sciences) <sup>1</sup>	4	<a href="#">core link</a>

**Spring – Semester 4 (credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3320	Linear Algebra (UD UCA Core: I)	3	
MATH	3331	Differential Equations (UD UCA Core: C)	3	
		LD UCA Core <sup>1</sup>	3	<a href="#">core link</a>
		LD UCA Core <sup>1</sup>	3	<a href="#">core link</a>
		Minor Field Course <sup>2,3</sup>	3	

**Year 3****Fall – Semester 5 (credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3360	Introduction to Rings and Fields	3	
MATH	4371	Introduction to Probability (UD UCA Core: R)	3	
MATH		MATH Major Elective	3	
		General Elective <sup>3</sup>	3	
		Minor Field <sup>2,3</sup>	3	

**Spring – Semester 6 (credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3362	Introduction to Group Theory	3	
MATH		MATH Major Elective	3	
		General Elective <sup>3</sup>	3	
		Minor Field <sup>2,3</sup>	3	
		Minor Field <sup>2,3</sup>	3	

**Year 4****Fall – Semester 7 (Credit hours: 16)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4362	Advanced Calculus I (UD UCA Core: Z)	3	
		General Elective <sup>3</sup>	3	
		General Elective <sup>3</sup>	4	
		Minor Field <sup>2,3</sup>	3	
		Minor Field <sup>2,3</sup>	3	

**Spring – Semester 8 (Credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
		General Elective <sup>3</sup>	3	
		General Elective <sup>3</sup>	3	
		General Elective <sup>3</sup>	3	
		Minor Field <sup>2,3</sup>	3	
		Minor Field <sup>2,3</sup>	3	

\_\_\_\_\_  
SIGNED – DEPARTMENT CHAIR

\_\_\_\_\_  
DATE

\_\_\_\_\_  
SIGNED – COLLEGE DEAN

\_\_\_\_\_  
DATE

**To be completed by the advisor when an Eight-Semester plan is accepted by the student:**

**If applicable, has student selected a minor? Type “x” as appropriate. \_\_\_\_\_ No \_\_\_\_\_ Yes**

**If “yes,” specify: \_\_\_\_\_**

### Notes

<sup>1</sup> See appropriate choices, alternatives, or substitutions under “UCA Core” in the *Undergraduate Bulletin*. Prior to completion of 30 semester hours, a student must complete a Lower-Division (LD) UCA Core course designated as a First-Year Seminar (FYS) in Critical Inquiry, Diversity, or Responsible Living. The student will also need to complete major, minor, or general elective courses designated as fulfilling the upper-division and capstone requirements of the UCA Core. See annotations in this Academic Map for courses in the major that fulfill these upper-division requirements; for others, consult the *Undergraduate Bulletin* and your academic advisor.

<sup>2</sup> This Academic Map includes 24 credit hours in the Minor field of study. Minor requirements range from 15 to 27 credit hours, so the student will need to adapt the number of general elective and minor elective credit hours in this plan as needed, depending upon the chosen minor field. Depending on a student’s choice of minor and special degree requirements, the total number of credit-hours taken may exceed the total number of credit hours required to complete the program.

<sup>3</sup> The pure mathematics major requires 24 hours of upper-division courses. The additional 16 upper-division credit hours needed to complete the degree may be met by courses in the minor field and by additional math or general electives.