



DEGREE SHEET / 2017-2018 CATALOG		
Student name:		
Eagle ID:		
Eagle Email:		
Phone:		
<b>AS Mathematics</b>		
<p>The curriculum of the AS Mathematics degree prepares students with the mathematical courses (Calculus I,II, II, Linear Algebra, Ordinary Differential Equations and/or Numerical Analysis) needed in any scientific and engineering discipline. The AS Mathematics degree also articulates with the BS Mathematics degree.</p>		
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GENERAL EDUCATION REQUIREMENTS (38 CR)	SEMESTER	GRADE
<b>AREA I: COMMUNICATIONS (9 CR)</b>		
ENG 111 English Composition I (3) <i>Pre-requisites: ENG 109 or adequate score on the Course Placement Evaluation</i>		
SPCH 130 Public Speaking (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
Choose ONE of the following two courses:		
ENG 112 English Composition II (3) <i>Prerequisite: ENG 111</i>		
ENG 116 Technical Writing (3) <i>Prerequisite: ENG 111</i>		
<b>AREA II: MATHEMATICS (3 CR)</b>		
MATH 150 College Algebra (3) <i>Pre-requisite: MATH 130 or MATH 130L</i>		
<b>AREA III: LABORATORY SCIENCES (8 CR)</b>		
<b>AREA IV: SOCIAL/BEHAVIORAL SCIENCES (6-9 CR)*</b>		

<b>AREA V: HUMANITIES and FINE ARTS (6-9 CR)*</b>		
<b>AREA VI: FIRST YEAR EXPERIENCE (3 CR)</b>		
FYE 101 Freshman Year Experience (3)		
<b>PROGRAM REQUIREMENTS (25 CR)</b>		
MATH 145 Introduction to Probability and Statistics (3) <i>Pre-requisite: MATH 130 or MATH 130L</i>		
MATH 155 Trigonometry and Pre-calculus (4) <i>Pre-requisite: MATH 150</i>		
MATH 162 or 162E Calculus I (4) <i>Pre-requisite: MATH 155</i>		
MATH 163 or 163E Calculus II (4) <i>Pre-requisite: MATH 162 or MATH 162E</i>		
MATH 264 Calculus III (4) <i>Pre-requisite: MATH 163</i>		
MATH 294 Introduction to Linear Algebra with Applications (3) <i>Pre-requisite: MATH 162 or MATH 162E</i>		
Choose either MATH 296 Introduction to Differential Equations (3) <i>Pre-requisite MATH 163 or MATH 163E</i> OR MATH 275 Introduction to Numerical Computing (3) <i>Pre-requisite MATH 163 or MATH 163E</i>		
<b>TOTAL 63 CR</b>		
<b>ADVISOR APPROVAL</b>	<b>DATE</b>	

## SUGGESTED SEQUENCE OF COURSES

### First Semester (15 crs)

FYE 101 First Year Experience (3)  
ENG 111 English Composition I (3)  
MATH 145 Introduction to Probability and Statistics (3)  
MATH 150 College Algebra (3)  
HUM/ART/SOC/PSY (3)

### Second Semester (18 crs)

SPCH 130 Public Speaking (3)  
MATH 155 Trigonometry and Precalculus (4)  
MATH 162 Calculus I (4) - Need to take as co-requisite with MATH 155 with advisor's permission  
CHEM 121/L or GEOL 101/L or ASTR 110/L or PHYS 121/L or BIOL 110/L (4)  
HUM/ART/SOC/PSY (3)

### Third Semester (17 crs)

ENG 112 or ENG 116 (3)  
MATH 163 Calculus II (4)  
MATH 294/314 Linear Algebra (3)  
CHEM 122/L or GEOL 102/L or ASTR 110/L or PHYS 122/L or BIOL 110/L (4)  
HUM/ART/SOC/PSY – Second language suggested (3)

### Fourth Semester (16 crs)

MATH 264 Calculus III (4)

MATH 275/375 Introduction to Numerical Computing (3)  
OR  
MATH 296/316 Ordinary Differential Equations (3)

HUM/ART/SOC/PSY (3)  
HUM/ART/SOC/PSY (3)

# EDUCATIONAL PLANNING FORM (Semester)

FALL SEMESTER	SPRING SEMESTER	SUMMER
<b>Total Units</b>	<b>Total Units</b>	<b>Total Units</b>
FALL SEMESTER	SPRING SEMESTER	SUMMER
<b>Total Units</b>	<b>Total Units</b>	<b>Total Units</b>
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