

## GENERAL EDUCATION 44 CREDITS

BASECAMP	(37 Credits)	
GATE 1000	University, Vocation & Wellness	2 Credits
ENGL 1220	Principles of College Writing II	3 Credits
COMM 1260	Oral Communication	3 Credits
BIBL 1300	Literature of the Old Testament	3 Credits
BIBL 1310	Literature of the New Testament	3 Credits
CORE 2000	Engaging Faith and Society	3 Credits
MATH 2610	Statistics	3 Credits
CHEM 1510	Chemistry I	4 Credits
ENGR 1000	Introduction to Engineering	3 Credits
PHYS 2510	University Physics I	4 Credits
PHYS 2520	University Physics II	4 Credits
ENGR 1950	Engineering Economic Analysis	2 Credits

### EXPEDITION COURSES (4 Credits)

Choose 1 course from Trail #1 or Trail #2 and one from Trail # 5

### SUMMIT COURSE MENU (3 credits)

## MAJOR REQUIREMENTS 81 CREDITS

### Math 17 Credits

MATH 2430:	Calculus I	4 Credits
MATH 2530:	Calculus II	4 Credits
MATH 2630:	Calculus III	3 Credits
MATH 3250	Linear Algebra	3 Credits
MATH 3930	Differential Equations	3 Credits

### Engineering Core Requirements Courses 54 Credits

ENGR 1060	Computer Aided Design and Modeling	3 Credits
ENGR 1830	Computer Programming & Computational Methods	4 Credits
ENGR 2150	Statics	3 Credits
ENGR 2250	Dynamics	3 Credits
ENGR 2400	Principles of Material Science	4 Credits
ENGR 2510	Linear Circuits I	4 Credits
ENGR 2600	Manufacturing Processes	3 Credits
ENGR 2910	Sophomore Project	2 Credits
ENGR 2940	Principles of Management	3 Credits
ENGR 3210	Signals and Systems	3 Credits
ENGR 3410	Thermodynamics	3 Credits
ENGR 3530	Control Systems	3 Credits
ENGR 3620	Introduction to Robotics	3 Credits
ENGR 3830	Principles of Engineering Design	3 Credits
ENGR 3910	Engineering Design and Junior Project	2 Credits
ENGR 4030	Quality Engineering	3 Credits
ENGR 4910	Capstone Design Project I	2 Credits
ENGR 4920	Capstone Design Project II	3 Credits

### Electives: 7 Credits From

<i>ENGR 2520</i>	<i>Linear Circuits II</i>	<i>4 Credits</i>
<i>ENGR 2370</i>	<i>Logic Design</i>	<i>3 Credits</i>
<i>ENGR 3110</i>	<i>Electronics</i>	<i>3 Credits</i>
<i>ENGR 3850</i>	<i>Digital Systems Design</i>	<i>3 Credits</i>
<i>ENGR 3945</i>	<i>Introduction to Data Analytics</i>	<i>4 Credits</i>
<i>ENGR 4420</i>	<i>Decision and Risk Analysis</i>	<i>3 Credits</i>
<i>ENGR 4810</i>	<i>Discrete System Modeling and Simulation</i>	<i>3 Credits</i>
<i>ENGR 4890</i>	<i>Special Topic in Engineering</i>	<i>3 Credits</i>
<i>BUSS 3810</i>	<i>Internet of Things</i>	<i>3 credits</i>
<i>BUSS 4810</i>	<i>System Analysis &amp; Design</i>	<i>4 credits</i>
<i>BUSS 4950</i>	<i>Entrepreneurship</i>	<i>3 credits</i>
<i>BIOL 3510</i>	<i>Environmental Sciences</i>	<i>3 credits</i>
<i>CHEM 1520</i>	<i>General Chemistry II</i>	<i>4 credits</i>
<i>KINS 3300</i>	<i>Biomechanics</i>	<i>3 credits</i>

### Practicum and Experiential Learning: 3 credits from

Students must select one of the following courses:

<i>ENGR 3930</i>	<i>Engineering Cooperative Experience</i>	<i>3 credits</i>
<i>ENGR 3950</i>	<i>Engineering Internship</i>	<i>3 credits</i>
<i>ENGR 3920</i>	<i>Undergraduate Research</i>	<i>3 Credits</i>