

## Associate of Science Degree (A.S.) Engineering Preferred Course Sequence

Semester I	Semester II	Semester III	Semester IV
Composition I <b>ENG 101</b>  3	Technical Writing <b>ENG 150</b>  3	Public Speaking <b>COM 105</b>  3	Problem Solving and Programming Concepts <b>CIS 120</b>  3
Study and Careers in Engineering <b>EGR 100</b>  1	Physics for Engineers and Scientists I* <b>PHY 220</b>  5	Physics for Engineers and Scientists II* <b>PHY 222</b>  5	General Biology I* <b>BIO 160</b>  4
Analytic Geometry and Calculus I* <b>MTH 140</b>  5	Analytic Geometry and Calculus II* <b>MTH 141</b>  5	Analytic Geometry and Calculus III* <b>MTH 240</b>  3	Differential Equations <b>MTH 241*</b>  3
Program Specific Elective(s)* <b>EGR/PHY/CHM</b> (CHM 101/111 recommended)  <b>(B)</b> 6	**General Elective(s) (100 level or higher)  4	American Government and Politics <b>PLS 101</b>  3	Principles of Macroeconomics* <b>ECO 270</b> or Principles of Microeconomics* <b>ECO 275</b>  3
15	17	Humanities Elective  <b>(A)</b> 3	13
		17	

**AS Degree:  
Minimum 62 Total Hours**

\* If prerequisite has not been met, student must first enroll in the appropriate course(s).

\*\*General Electives may be combined in any two or more classes to total 4 or more credits.

This block diagram is provided to aid in advising students and tracking course completion.

*See course descriptions sections of the catalog for individual course prerequisites.*

OTC reserves the right to modify course titles, sequences and content in accordance with college procedures.

**(A) OTC COURSES THAT SATISFY THE HUMANITIES REQUIREMENT:**

ART 101	Art History I
ART 105	Art History II
ART 110	Art and Experience
ASL 101	American Sign Language I
ASL 102	American Sign Language II
CHN 101	Beginning Chinese I
ENG 180	Introduction to Literature
ENG 195	Selected Topics in Literature
ENG 220	American Literature: Beginnings -1870
ENG 225	American Literature: 1870 - Present
ENG 240	British Literature: Beginnings - 1790
ENG 245	British Literature: 1790 - Present
ENG 250	Children's Literature
ENG 260	Survey of World Literature I
ENG 265	Survey of World Literature II
FRN 101	Beginning French I
FRN 102	Beginning French II
GRM 101	Beginning German I
GRM 102	Beginning German II
HST 105	World History I
HST 106	World History II
HUM 101	Introduction to Humanities
HUM 102	World Humanities
MUS 101	Music of the World
MUS 105	Western Music Appreciation
MUS 106	Jazz Appreciation
MUS 201	Latin-American Music
PHL 101	Introduction to Philosophy
PHL 105	Introduction to Ethics
PHL 110	Religions of the World
PHL 120	Introduction to the New Testament
SPN 101	Beginning Spanish I (or above)
THR 101	Introduction to Theater

**(B) OTC COURSES THAT SATISFY THE PROGRAM SPECIFIC ELECTIVE: EGR/PHY/CHM**

EGR 201	Engineering Statics
EGR 250	Engineering Design with Computer Applications
PHY 105	Introduction to Physics
PHY 110	Introduction to Geology
PHY 120	General Physics I
PHY 130	General Physics II
PHY 140	Technical Physics
CHM 101	Introductory Chemistry
CHM 111	General Chemistry I
CHM 112	General Chemistry II
CHM 200	Survey of Organic Chemistry
CHM 225	Environmental Chemistry
CHM 250	Introduction to Quantitative Analysis