AS – Engineering – Field of Study

Certificate – Engineering Field of Study
29 ~~36~~ credit hours

REQUIRED GENERAL EDUCATION CORE COURSES **11 credit hours**
~~CHEM 1412 General Chemistry II [1]~~
MATH 2320 Differential Equations [1]
PHYS 2425 University Physics I [1]
PHYS 2426 University Physics II [1]

OTHER REQUIRED COURSES **18 ~~25~~ credit hours**
MATH 2413 Calculus I [1]
MATH 2414 Calculus II [1]
MATH 2415 Calculus III [1]
ENGR 2301 Engineering Mechanics I [1]
Select one of the following two courses:
ENGR 2302 Engineering Mechanics II [1]
ENGR 2305 Electrical Circuits I [1]
~~PHYS 2426 University Physics II [1]~~

To earn the AS degree, in addition to the Field of Study Certificate, complete the following General Education Core requirements:

ADDITIONAL GENERAL EDUCATION CORE REQUIREMENTS **31 credit hours**

Communication **6 credit hours**
Complete both of the following courses:
ENGL 1301 and 1302

Language, Philosophy & Culture **3 credit hours**
Select one of the following courses:

English	ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343
French	FREN 2303, 2304
History	HIST 2311, 2312, 2321, 2322
Humanities	HUMA 1301
Philosophy	PHIL 1301, 1304, 2303, 2306, 2307, 2321

Social and Behavioral Sciences **3 credit hours**
Select one of the following courses:

Anthropology	ANTH 2302, 2346, 2351
Economics	ECON 2301, 2302
Psychology	PSYC 2301
Sociology	SOCI 1301

Government / Political Science **6 credit hours**
Complete both of the following courses:
GOVT 2305 and 2306

American History **6 credit hours**
Select two of the following courses:
HIST 1301, 1302, 2301

Creative Arts **3 credit hours**

Select one of the following courses:

Dance	DANC 2303
Music	MUSI 1306, 1307, 1310
Theatre	DRAM 1310, 2361, 2362, 2366, 2367
Visual Arts	ARTS 1301, 1303, 1304, 1313

Component Area Option (CAO) **4 credit hours**

Speech **3 credit hours**

Select one of the following courses:

SPCH 1311, 1315, 1321

Additional CAO Requirement **1 credit hour**

Select one of the following courses:

PSYC 1100, 1300

RECOMMENDED COURSES

The following recommended courses may also be taken toward a bachelor's degree; however, they are not part of the FOS, nor do they satisfy any General Education Core requirements.

ENGR 1201	Introduction to Engineering
ENGR 1172	Introduction to Experimental Techniques [2]
ENGR 2110	Introduction to Digital Systems Laboratory [2]
ENGR 2300	Applied Linear Algebra [2]
ENGR 2310	Introduction to Digital Systems [2]

1. Please check prerequisites for this course.

2. This course will transfer to a specific 2+2 engineering program. Please check with your advisor to learn whether the course will transfer to the engineering program of your choice.