College of Eastern Utah

ENVIRONMENTAL ENGINEERING

Degree Options:

-Associate of Pre-Engineering

Program Description:

The Associate of Pre-Engineering (APE) degree is offered to students who plan to transfer to a university and pursue a baccalaureate degree in any of the traditional fields of engineering. This degree requires an emphasis of course work in engineering, mathematics, and science, with fewer general education requirements than the Associate of Science/Arts degree. It is anticipated that the balance of general education requirements necessary for a bachelor's degree will be taken during the summer semester or as a junior and/or senior at the 4-year transfer institution. This program is consistent with recent Accreditation Board for Engineering and Technology (ABET) standards. Course work for the APE degree must include the completion of at least 68 to 76 semester hours.

The recommended course of study is as follows:

TWO-YEAR PLAN

First Year:

Fall Semester

ENGN 1000	Intro to Engineering	2*
ENGN 1005	Intro to Engineering Lab	1*
MATH 1210	Calculus I	4*
PHYS 2210	Physics for Scientists & Engineers	4*
PHYS 2215	Physics for Scientists & Engineers Lab	1*
CHEM 1210	General Chemistry I	4*
CHEM 1215	General Chemistry I Lab	1*
Semester Total		17

Spring Semester

MATH 1220	Calculus II	4*
ENGL 1010	Introduction to Writing	3*
CHEM 1220	General Chemistry II	4*
CHEM 1225	General Chemistry II Lab	1*
BIO 1610	Biology I	3
ENGN 2240	Surveying	3*
Semester Total		18

Second Year:

Fall Semester

MATH 2270	Linear Algebra	3*
CHEM 2310	Organic Chemistry I	4*
CHEM 2315	Organic Chemistry I Lab	1*
ENGN 2010	Statics	3*
BIO 2060	General Microbiology	3
BIO 2065	General Microbiology Lab	1*
ENGL 2010	Intermediate Writing	3*
Semester Total		18

Spring Semester

MATH 2280	Ordinary Differential Equations	3*
EDDT 1400	CAD Level I: Intro. to CAD	3*
ENGN 2030	Dynamics**	3*
ENGN 2140	Strength of Materials**	3*
ENGN 2300	Thermodynamics, Numerical Methods, Gen. Ed., orTech. Elective(s)***	7*
Semester Total		19

Program Total 72

THREE-YEAR PLAN

First Year:

Fall Semester

ENGN 1000	Intro to Engineering	2*
ENGN 1005	Intro to Engineering Lab	1*
MATH 1060	Trigonometry	3*
ENGL 1010	Introduction to Writing	3
CHEM 1210	General Chemistry I	4*
CHEM 1215	General Chemistry I Lab	1*
BIO 1610	Biology I	3
Semester Total		17

Spring Semester

MATH 1210	Calculus I	4*
ENGL 2010	Intermediate Writing	3*
CHEM 1220	General Chemistry II	4*
CHEM 1225	General Chemistry II Lab	1*
BIO 2060	General Microbiology	3
BIO 2065	General Microbiology Lab	1*
Gen. Education or Technical Elective***		3*
Semester Total		19

Second Year:

Fall Semester

MATH 2270	Linear Algebra	3*
CHEM 2310	Organic Chemistry I	4*
CHEM 2315	Organic Chemistry I Lab	1*
PHYS 2210	Physics for Scientists & Engineers I	4*
PHYS 2215	Physics for Scientists & Engineers I Lab	1*
Gen. Education or Technical Elective***		3*
Semester Total		16

Spring Semester

MATH 1220	Calculus II	4*
ENGN 2240	Surveying	3*
EDDT 1400	CAD Level 1: Intro. to CAD	3*
Computer Science Programming Lang.		3*
Technical Electives***		7*
Semester Total		19

Third Year:

Fall Semester

MATH 2210	Multivariable Calculus	3*
ENGN 2010	Statics	3*
Numerical Methods, General Education, or Technical Elective(s)***		12*
Semester Total		18

Spring Semester

MATH 2280	Ordinary Differential Equations	3*
ENGN 2140	Strength of Materials**	3*
ENGN 2030	Dynamics**	3*
ENGN 2300	Thermodynamics**	3*
Technical Elective(s)*** or Gen. Education		6*
Semester Total		18

Program Total 107

*means class has pre-requisite(s) and/or corequisite(s)
or technical elective*
***can be chosen from approved classes in Physics, Chemistry, Engineering, Mathematics, Life Science, Electronics, Computer Science, and others

Note: MATH 2210 Multivariable Calculus is required at some four-year colleges/universities in the second year. It is strongly recommended that it be taken here to ensure better success at the transfer school.

For more information contact:

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