

First Year

Sophomore Year

Junior Year

Senior Year

Fall__

Spring__

Fall__

Spring__

Fall__

Spring__

Fall__

Spring__

Discovery 1		
Fine Arts		
SEM	CR	GRADE
	4	

Discovery 2		
Humanities		
SEM	CR	GRADE
	4	

Discovery 4		
World Culture		
SEM	CR	GRADE
	4	

Discovery 5		
Social Science		
SEM	CR	GRADE
	4	

ENGL 401*		
First Year Writing		
SEM	CR	GRADE
	4	

Discovery 3		
Historical Perspectives		
SEM	CR	GRADE
	4	

CHE 501		
Intro to Chem Eng 1		
SEM	CR	GRADE
	3	

CHE 502		
Intro to Chem Eng 2		
Discovery Inquiry		
SEM	CR	GRADE
	3	

CHE 601		
Fluid Mechanics		
SEM	CR	GRADE
	3	

CHE 604		
ChE Thermodynamics		
SEM	CR	GRADE
	3	

CHE 703		
Mass Transfer		
SEM	CR	GRADE
	3	

ENE 708*		
Capstone Design		
SEM	CR	GRADE
	4	

Incoming students
see "Advising Notes"
on back page

MATH 425		
Calculus 1		
Discovery QR		
SEM	CR	GRADE
	4	

MATH 426		
Calculus 2		
SEM	CR	GRADE
	4	

MATH 527		
Diff Equations		
SEM	CR	GRADE
	4	

MATH 644		
Statistics for Engineers		
SEM	CR	GRADE
	4	

ENE 756		
Environmental Eng		
Microbiology		
Discovery BS		
SEM	CR	GRADE
	4	

Tech Elective		
Tech Elective 2		
SEM	CR	GRADE
	4	

ENE 752		
Process Control		
SEM	CR	GRADE
	4	

PHYS 407		
Physics 1		
Discovery PS		
SEM	CR	GRADE
	4	

PHYS 408		
Physics 2		
SEM	CR	GRADE
	4	

ENE 742		
Solid and Haz Waste Eng		
SEM	CR	GRADE
	3	

Tech Elective		
Tech Elective 1		
SEM	CR	GRADE
	4	

Tech Elective		
Tech Elective 3		
SEM	CR	GRADE
	4	

ENE 772		
Physicochemical Process		
for Water and Air		
SEM	CR	GRADE
	4	

ENE 400		
Env Eng Lectures 1		
SEM	CR	GRADE
	1	

CHE 400		
ChE Lectures		
SEM	CR	GRADE
	1	

CHEM 683		
Physical Chemistry 1		
SEM	CR	GRADE
	3	

CHEM 684		
Physical Chemistry 2		
SEM	CR	GRADE
	3	

CHEM 651		
Organic Chemistry 1		
SEM	CR	GRADE
	3	

CHEM 652A		
Organic Chemistry 2		
SEM	CR	GRADE
	3	

ENE 709		
Air Pollution and Control		
SEM	CR	GRADE
	4	

ESCI 710		
Groundwater Hydrology		
SEM	CR	GRADE
	4	

CHEM 405		
General Chemistry		
SEM	CR	GRADE
	4	

CHEM 685		
Physical Chemistry Lab		
SEM	CR	GRADE
	2	

CHEM 653		
Organic Chemistry Lab		
SEM	CR	GRADE
	2	

ENE 612*		
Unit Operations Lab 1		
SEM	CR	GRADE
	3	

ENE 713*		
Unit Operations Lab 2		
SEM	CR	GRADE
	3	

Sem: 17
Cum: 17

Sem: 17
Cum: 34

Sem: 16
Cum: 50

Sem: 14
Cum: 64

Sem: 15
Cum: 79

Sem: 17
Cum: 96

Sem: 18
Cum: 114

Sem: 16
Cum: 130

Continuous line = prerequisite, dashed line = pre- or co- requisite, solid corner triangle=critical path, *=WI

Green - ENE-IP; Red - Discovery Program; Black - Other

Advising Notes (Environmental Engineering – Industrial Processes)

No MATH 418 – Incoming students without AP credit should attempt to place into MATH 425. If successful, move the math sequence up one semester.

AP Math – A 4 on the AB exam or a 3 on the BC exam gives credit for MATH 425. Students may choose to take MATH 425 anyway. With a 5 on the AB exam, students should use the AP credit and start with MATH 426. With a 4 on the BC exam, the student also gets credit for 426 but may choose to take 426 anyway. With a 5 on the BC exam, the student should use the AP credits and start with MATH 527.

Discovery Requirements

Discovery Foundations

One course in writing skills (ENGL 401)
 One course in quantitative reasoning (MATH 425)

Inquiry

One Inquiry course (CHE 502)

Discovery in the Disciplines

Biological Science	Physical Science (PHYS 407 OR CHEM 405)
Fine and Performing Arts	Humanities
Historical Perspectives	World Cultures
Social Science	Environment, Technology and Society (ENE-IP students are exempt)

Students must take one course in each category at the 400 – 600 level

Discovery and Integrative Understanding

Senior Capstone Experience/Course (ENE 708)

Students must get an average grade of C or better in CHE 501/502 to continue in the program.

Students must earn at least 130 credits with a minimum 2.0 GPA overall to graduate.

Study Abroad (Exchange) ENE-IP students are required to have a cumulative GPA of 3.00 or better in Math, Physics, Chemistry and CHE/ENE courses at the end of the semester prior to their exchange semester.

Please note that Independent Project or Study cannot be used to satisfy an ENE elective or Tech Elective.

Please note that you can only register for 20 credits per semester. Also, when you pre-register for classes, you may only register for 18 credits maximum. To register for 20 credits per semester, please pre-register for 16-17 credits and then do an add/drop for the remaining 4 or 3 credits (total 20) at the beginning of the semester.