



Finish in 4 Curricular Plan Industrial Engineering



A Finish in 4 Curricular Plan provides a roadmap for completing this academic program and the UB Curriculum in four years. Your actual plan may vary depending on point of entry to the university, course placement and/or waivers based on standardized test scores, earned alternative credit and/or college transfer credit.

All students are encouraged to use this plan in conjunction with other academic planning resources such as your academic advisor, the hUB Academic Advisement Report, My Planner and Path Finder tool.

In addition to following this course roadmap, all other admission and academic requirements of this major as listed in the Undergraduate Catalog must be met in order to successfully complete this degree.

Freshman Year – Fall Semester		
Course	Category	Credit
EAS 199	M/UBS	3
MTH 141 College Calculu	M/MQR	4
CHE 107 General Chemis	M/SLI 1	4
ENG 105	CL1	4
Thematic Pathway	TP1	3
<i>Total Credits:</i>		18

Freshman Year – Spring Semester		
Course	Category	Credit
EAS 202 Engineering Imp	M	1
MTH 142 College Calculu	M	4
CHE 108/PHY 207/257/E	M	4
PHY 107 General Physics	M/SLI 2	4
Thematic Pathway	TP2 /DL	3
<i>Total Credits:</i>		16

Sophomore Year – Fall Semester		
Course	Category	Credit
MTH 241 College Calculu	M	4
PHY 108 General Physics	M	4
EAS 207 Statics	M	3
Global Pathway	GP1	3
<i>Total Credits:</i>		14

Sophomore Year – Spring Semester		
Course	Category	Credit
MTH 306 Introduction to	M	4
EAS Elective	M	3
IE 320 Engineering Econ	M/TP3	3
EAS 230 Engineering Cor	M	3
Global Pathway	GP2	3
<i>Total Credits:</i>		16

Junior Year – Fall Semester		
Course	Category	Credit
IE 322 Analytics and Con	M	3
EAS 305 Applied Probabl	M	4
IE 326 Planning for Prod	M	3
IE 373 Systems Modeling	M	4
<i>Total Credits:</i>		14

Junior Year – Spring Semester		
Course	Category	Credit
IE 306 Statistics for Engi	M	4
IE 323 Human Factors in	M	4
IE 327 Facilities Design a	M/GP3	3
E 374 Systems Modeling	M	4
EAS 360	M/CL2	3
<i>Total Credits:</i>		18

Senior Year – Fall Semester		
Course	Category	Credit
IE 420 Systems Engineer	M	3
IE 477 Digital Simulation	M	4
IE Elective	M	3
IE Elective	M	3
IE Technical Elective	M	3
UBC 399	CAP	1
<i>Total Credits:</i>		17

Senior Year – Spring Semester		
Course	Category	Credit
IE 408 Quality Assurance	M	3
IE 496 Senior Capstone I	M	2
IE 496 Senior Capstone I	M	1
IE Elective	M	3
IE Elective	M	3
IE Technical Elective	M	3
<i>Total Credits:</i>		15

Total Credits Required for Degree:	128
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Category Legend:

M = Course Required for Major (including pre-requisites needed for admission to the major)

E = Elective (course not required for major or UB Curriculum)

The following are all components of the UB Curriculum (UBC) For more information on the UBC and course options visit: <list url of Catalog UBC page>

- UBS = UB Seminar
- CL1/CL 2 = Communication Literacy (2 required)
- CAP = UB Capstone
- DL = Diversity Learning
- GP1/GP2/GP3 = Global Pathway Course (3 required)
- MQR = Math and Quantitative Reasoning
- SLI1/SLI2 = Scientific Literacy and Inquiry (2 required)
- TP1/TP2/TP3 = Thematic Pathway Course (3 required)

Note: Some classes may count toward both a major (M) and UB Curriculum (UBC) requirement. Courses that count towards more than one requirement are indicated by a "/" (slash) in the category column indicating which categories the course will satisfy.