

RECOMMENDED SCHEDULE

ENTERING FALL 2018

Official course requirements based upon semester admitted into the program.

First Year

Fall

| | | |
|----------|--------------------------------|---|
| 3150:151 | ^Principles of Chemistry I | 3 |
| 3150:152 | Principles of Chem I Lab | 1 |
| 3300:111 | ~^English Composition I | 3 |
| 3450:221 | ^Analytic Geometry-Calculus I | 4 |
| 4200:101 | Tools for Chemical Engineering | 2 |
| 4200:110 | Proj. Management & Teamwork I | 1 |

14

Spring

| | | |
|----------|------------------------------------|---|
| 3150:153 | ^Principles of Chemistry II | 3 |
| 3150:154 | Qualitative Analysis | 2 |
| 3450:222 | ^Analytic Geometry-Calculus II | 4 |
| 4200:121 | Chemical Engineering Computations | 2 |
| | *General Ed or Honors Distribution | 3 |
| | ^2nd Writing Course | 3 |

17

Summer

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Second Year

Fall

| | | |
|----------|---------------------------------|---|
| 3150:263 | Organic Chemistry I | 3 |
| 3150:265 | Organic Chemistry Lab | 2 |
| 3450:223 | ^Analytic Geometry-Calculus III | 4 |
| 3650:291 | ^Elementary Classical Physics I | 4 |
| 4200:200 | Material and Energy Balances | 4 |
| 4200:210 | Proj. Management & Teamwork II | 1 |

18

Spring

| | | |
|----------|--|---|
| 3150:264 | Organic Chemistry II | 3 |
| 3450:335 | Intro. Ordinary Differential Equations | 3 |
| 3650:292 | ^Elementary Classical Physics II | 4 |
| 4200:225 | Equilibrium Thermodynamics | 4 |
| 4300:201 | ^Statics | 3 |

17

Summer

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Third Year

Fall

| | | |
|----------|--|---|
| 3150:313 | Physical Chemistry I | 3 |
| 3250:244 | Intro. to Economic Analysis (Social Sci) | 3 |
| 4200:310 | Proj. Management & Teamwork III | 1 |
| 4200:321 | Transport Phenomena | 3 |
| 4200:341 | Process Economics | 2 |
| 4200:353 | Mass Transfer Operations | 3 |
| | Advanced Math Elective | 2 |

17

Spring

| | | |
|----------|------------------------------------|---|
| 4200:305 | Materials Science | 2 |
| 4200:330 | Chemical Reaction Engineering | 3 |
| 4200:351 | Fluid & Thermal Operations | 3 |
| 4200:360 | Chemical Engineering Lab | 3 |
| | *General Ed or Honors Distribution | 3 |

14

Summer

| | | |
|----------|------------------------------------|---|
| 3150:314 | Physical Chemistry II | 3 |
| | *General Ed or Honors Distribution | 3 |
| | *General Ed or Honors Distribution | 3 |
| | | |
| | | |
| | | |

9

Fourth Year

Fall

| | | |
|----------|------------------------------------|---|
| 4200:410 | Proj. Management & Teamwork IV | 1 |
| 4200:435 | Process Analysis & Control | 3 |
| 4200:441 | Process Design I | 3 |
| | *General Ed or Honors Distribution | 3 |
| | *General Ed or Honors Distribution | 3 |
| | Advanced Chemistry Elective | 3 |

16

Spring

| | | |
|----------|------------------------------------|---|
| 4200:442 | Process Design II | 3 |
| 4400:307 | Basic Electrical Engineering | 4 |
| 4200:xxx | Chemical Engineering Elective | 3 |
| 4200:xxx | Chemical Eng. Design Elective | 3 |
| | *General Ed or Honors Distribution | 3 |

16

Summer

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

College of Engineering Notes

*Credit hours shown for General Education or Honors Distribution are general guidelines only. These courses should be chosen in accordance with the appropriate General Education curriculum guide (for non-honors students) or Honors Distribution (for honors students). Honors students must also ensure that their course selections meet additional requirements not shown on this curriculum guide.

[Gen Ed Program - https://www.uakron.edu/general-education/](https://www.uakron.edu/general-education/)

[Honors Distribution - https://www.uakron.edu/honors/curriculum/](https://www.uakron.edu/honors/curriculum/)

^Honors sections may be available; check the schedule of classes.

Chemical Engineering Program Notes

See Chemical and Biomolecular Engineering Departmental advisors for approved chemical engineering electives

~The Chemical and Biomolecular Engineering Department recommends that English Composition I be used to satisfy writing course requirement but other choices are available. See the General Education Program for details.

*Check General Education Program or Honors Distribution to find courses that satisfy the 2nd writing course requirement.

In addition to meeting all other degree requirements, a minimum of 137 credits must be completed.