### Department of Chemical and Biological Engineering - BS CHE Degree - 127 Credit Hours

#### Freshman Year

**Fall**
- **CH 101** (CH 117) General Chem I + Lab (4)
- **MA 125** (MA 145) Calculus I (4)
- **ENGR 103** Foundations (3)
- **CHE 255**

**Spring**
- **CH 102** (CH 118) General Chem II + Lab (4)
- **MA 125** (MA 146) Calculus II (4)
- **EN 101** English Comp I (3)
- **CHE 254**

**Placement**
- **CHE 125** or **ENGR 111** Intro to CHE (1)

**Sophomore Year**

**Fall**
- **CH 231** Organic I (3)
- **MA 126** (MA 127) Calculus III (4)
- **MA 227** (MA 247) Calculus IV (4)
- **CHE 125**

**Spring**
- **MA 238** Diff. Eq. (3)
- **PH 105** (PH 125) Physics I w/ Calc (4)
- **PH 106** (PH 126) Physics II w/ Calc (4)
- **CHE 255** Thermo (4)

**Placement**
- **EN 102** English Comp II (3)
- **MA 126** (MA 127) Calculus III (4)
- **CHE 254**

### Legend

- **BSC** Biological Sciences
- **CH** Chemistry
- **CHE** Chemical Engineering
- **EN** English
- **HI/SB** History/Social and Behavioral Sciences
- **HL/L/FA** Humanities/Literature/Fine Arts
- **MA** Mathematics
- **ENGR** Engineering

### Electives

- CHE, ENGR, CAREER, and ADV. SCI. ELECTIVES SEE BASIC GUIDE TO CHBE FOR OPTIONS

This is an unofficial flow chart prepared to assist students in planning their coursework. The UA Undergraduate Catalogue contains the official listing of academic information. Chemical and Biological Engineering and other departments change their pre-requisites and co-requisites from time to time. Students should consult the UA Undergraduate Catalogue and seek advising prior to registering for courses.
### DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING - BS CHE DEGREE - 127 CREDIT HOURS

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
<th>FALL</th>
<th>SENIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 CREDIT HOURS</td>
<td></td>
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<td>15/17 CREDIT HOURS</td>
<td>15 CREDIT HOURS</td>
</tr>
</tbody>
</table>

#### FALL
- **CHECK PRE-REQS**
- **ENG EL**
  - MTE 271 OR ECE 320 (3)
- **CHE 254**
  - CHE 304 FLUIDS (3)
  - MA 126 (CHE 323 (CHE 321))
  - CHE 255 MA 238
  - MA 238 CHE 255
  - MA 238 CHE 255
  - HI/SB HISTORY/SOCIAL AND BEHAVIORAL (3)
  - HU/L/FA HUMANITIES/LITERATURE/FINE ARTS (3)

#### SPRING
- **CHECK PRE-REQS**
- **CHE 323 MA 238**
  - CHE 324 TRANSPORT (3)
  - MA 238 CHE 255
  - MA 238 CHE 255
  - HI/SB HISTORY/SOCIAL AND BEHAVIORAL (3)
  - HU/L/FA HUMANITIES/LITERATURE/FINE ARTS (3)

#### SUMMER
- **CHECK PRE-REQS**
  - **CHE 305 SEPARATIONS (3)**
  - CHE 323 (CHE 322)
  - CHE 255 MA 238
  - MA 238 CHE 255
  - MA 238 CHE 255

#### FALL
- **CHECK PRE-REQS**
- **CHE 305 SEPARATIONS (3)**
  - CHE 323 (CHE 322)
  - CHE 255 MA 238
  - MA 238 CHE 255
  - MA 238 CHE 255
  - HI/SB HISTORY/SOCIAL AND BEHAVIORAL (3)
  - HU/L/FA HUMANITIES/LITERATURE/FINE ARTS (3)

#### SENIOR YEAR
- **CHECK PRE-REQS**
  - **CHE 493 PROCESS CONTROL (3)**
  - CHE 255 MA 238
  - CHE 305 DESIGN I (3)
  - CHE 481 CHE 482
  - CHE 102 CHE 440
  - CHE 481

#### SUMMER
- **CHECK PRE-REQS**
  - **CHE 481 DESIGN II (3)**
  - CHE 255 MA 238
  - CHE 305 DESIGN I (3)
  - CHE 481 CHE 482
  - CHE 102 CHE 440
  - CHE 481

### LEGEND

- **BSC** - BIOLOGICAL SCIENCES
- **CH** - CHEMISTRY
- **CHE** - CHEMICAL ENGINEERING
- **EN** - ENGLISH
- **HI/SB** - HISTORY/SOCIAL AND BEHAVIORAL
- **HU/L/FA** - HUMANITIES/LITERATURE/FINE ARTS
- **MA** - MATHEMATICS
- **ENGR** - ENGINEERING

### NOTES
- **THIS IS AN UNOFFICIAL FLOW CHART PREPARED TO ASSIST STUDENTS IN PLANNING THEIR COURSEWORK. THE UA UNDERGRADUATE CATALOGUE CONTAINS THE OFFICIAL LISTING OF ACADEMIC INFORMATION.**
- **CHEMICAL AND BIOLOGICAL ENGINEERING AND OTHER DEPARTMENTS CHANGE THEIR PRE-REQUISITES AND CO-REQUISITES FROM TIME TO TIME. STUDENTS SHOULD CONSULT THE UA UNDERGRADUATE CATALOGUE AND SEEK ADVISING PRIOR TO REGISTERING FOR COURSES.**