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|------------|--------------------------|
| Department | Chemistry & Biochemistry |
| Program | BS Biochemistry |
| Bulletin | 2013-2014 |

Revised July 2013

Major
Cognate
Gen Ed
Elective, Minor

← toc

Freshperson (First) Year

| Fall Semester | | | | | | | | | | Spring Semester | | | | | | | | | | |
|---------------|------------|--------------------------------|----|-----|----|----|----|---|---|-----------------|-----------------|-----------------------|----|-----|----|----|----|---|---|--|
| Course | Title | Cred | M | C | GE | E | UD | L | | Course | Title | Cred | M | C | GE | E | UD | L | | |
| 1 | 1 CHEM131 | General Chemistry I | 4 | • | | | | | 1 | 1 | CHEM132 | General Chemistry II | 4 | • | | | | | 1 | |
| 2 | S BHSC100 | Philosophy of Service | 2 | | • | | | | | R | RELT100 | God & Human Life | 3 | | • | | | | | |
| 4 | LC ENGL115 | English Comp I | 3 | | | • | | | | LC | COMM104 | Communication Skills | 3 | | | • | | | | |
| 3 | Hi HIST117 | Civilizations & Ideas I | 3 | | | | • | | | PE | HLED120 | Fit for Life | 1 | | | | • | | | |
| 5 | SS | Social Science: Foundat'n list | 3 | | | | | • | | C | INFS120 | Computer Tools | 3 | | | | | • | | |
| 6 | CHEM210 | Chemical Topics | 0 | • | | | | | | CHEM210 | Chemical Topics | 0 | • | | | | | | | |
| 1 | STEM | SEMESTER TOTAL | 15 | 4.0 | 0 | 11 | 0 | 0 | 1 | 1 | STEM | SEMESTER TOTAL | 14 | 4.0 | 0 | 10 | 0 | 0 | 1 | |
| 1 | labs | | | | | | | | | 1 | labs | | | | | | | | | |

+ Shuffle Bio, Calc, Phys sequences between 1st, 2nd, & 3rd yrs.

post-Freshperson (First) Year

| | | | | | | | | | | | | | | | | | | | | |
|---|-----------|-----------------------|---|-----|---|---|---|---|---|---|---------|-----------------------|---|-----|---|---|---|---|---|--|
| 1 | 1 PHYS141 | General Physics I | 4 | • | | | | | 1 | 1 | PHYS142 | General Physics II | 4 | • | | | | | 1 | |
| 1 | STEM | SEMESTER TOTAL | 4 | 0.0 | 4 | 0 | 0 | 0 | 1 | 1 | STEM | SEMESTER TOTAL | 4 | 0.0 | 4 | 0 | 0 | 0 | 1 | |
| 1 | labs | | | | | | | | | 1 | labs | | | | | | | | | |

Sophomore (Second) Year

| | | | | | | | | | | | | | | | | | | | | |
|---|------------|------------------------|----|-----|---|---|---|---|---|---------|---------------------|--------------------------|----|-----|---|---|---|---|---|---|
| 1 | 1 CHEM231 | Organic Chemistry I | 3 | • | | | | | | 1 | CHEM232 | Organic Chemistry II | 3 | • | | | | | | |
| 2 | CHEM241 | Organic Chem Lab I | 1 | • | | | | | 1 | CHEM242 | Organic Chem Lab II | 1 | • | | | | | | | 1 |
| 4 | 1 BIOL165 | Foundations of Biology | 5 | | • | | | | 1 | 1 | BIOL166 | Foundations of Biology | 5 | | • | | | | | 1 |
| 3 | LC ENGL215 | English Comp II | 3 | | | • | | | | Hi | HIST118 | Civilizations & Ideas II | 3 | | | • | | | | |
| 5 | PE FTESxxx | PE Activity #1 | 1 | | | | • | | | R | RELx2xx | Religion Course #2 | 3 | | | | • | | | |
| 6 | CHEM210 | Chemical Topics | 0 | • | | | | | | CHEM210 | Chemical Topics | 0 | • | | | | | | | |
| 2 | STEM | SEMESTER TOTAL | 13 | 4.0 | 5 | 4 | 0 | 0 | 2 | 2 | STEM | SEMESTER TOTAL | 15 | 4.0 | 5 | 6 | 0 | 0 | 2 | |
| 2 | labs | | | | | | | | | 2 | labs | | | | | | | | | |

Junior (Third) Year

| | | | | | | | | | | | | | | | | | | | | |
|---|-----------|-----------------------|------|-----|---|---|---|-----|---|---------|------------------|-----------------------|------|-----|---|---|---|-----|---|--|
| 1 | 1 BCHM421 | Biochem I | 4 | • | | | | ◇ | | 1 | BCHM422 | Biochem II | 3 | • | | | | ◇ | | |
| 2 | CHEM311 | Chem Seminar | 0.5 | • | | | | ◇ | | BCHM430 | Biochemistry Lab | 1 | • | | | | | ◇ | 1 | |
| 3 | 1 CHEM200 | Quantitative Analysis | 4 | • | | | | | 2 | CHEM312 | Chem Seminar II | 0.5 | • | | | | | | | |
| 4 | 1 MATH191 | Calculus I | 4 | | • | | | | | 1 | MATH192 | Calculus II | 4 | | • | | | | | |
| 5 | Hu | Arts & Humanities #1 | 3 | | | • | | | | R | RELx2xx | Religion Course #3 | 3 | | | | • | | | |
| 6 | | | | | | | | | | PE | FTESxxx | PE Activity #2 | 1 | | | | • | | | |
| 7 | | | | | | | | | | 1 | CHEM400 | Chemical Separations | 2 | • | | | | ◇ | 1 | |
| 3 | STEM | SEMESTER TOTAL | 15.5 | 8.5 | 4 | 3 | 0 | 4.5 | 2 | 3 | STEM | SEMESTER TOTAL | 14.5 | 6.5 | 4 | 4 | 0 | 4.5 | 2 | |
| 2 | labs | | | | | | | | | 2 | labs | | | | | | | | | |

*Adv Chem = 415 (inorg), 495 (research) ‡ Adv Biol=BIOL371,372,315,464,465;FNDT485

Senior (Fourth) Year

IMPORTANT: MCAT / DAT / PCAT should be taken before 4th year

| | | | | | | | | | | | | | | | | | | | | |
|-------|-----------|----------------------------|--------------------|-----|---|---|---|----|---|---------|---------------------------------|-----------------------|------|-----|---|---|---|-----|---|--|
| 4th 1 | 1 CHEM431 | Physical Chemistry I | 3 | • | | | | ◇ | | CHEM412 | Chem Seminar IV | 0.5 | • | | | | | ◇ | | |
| 4th 2 | CHEM441 | Physical Chemistry I Lab | 1 | • | | | | ◇ | 1 | 1 | CHEM430 | Instrumental Analysis | 2 | • | | | | ◇ | 1 | |
| 4th 4 | CHEM411 | Chem Seminar III | 0.5 | • | | | | ◇ | | SS | Social Science: Interdisc. list | 3 | | | • | | | | | |
| 4th 3 | R | UD Rel. Course #4 (Ethics) | 3 | | | | | ◇ | | 1 | Advanced Biology #2 ‡ | 3 | | • | | | | ◇ | 1 | |
| 4th 5 | 1 | Advanced Biology #1 ‡ | 3 | | • | | | ◇ | 1 | | Upper Div Elective (Minor) | 3 | | | | | • | ◇ | | |
| 4th 6 | PE | PE Activity #3 | 1 | | | | | | | Hu | Arts & Humanities #2 | 3 | | | | | • | | | |
| 4th 7 | | CHEM495 | Chemistry Research | 2 | | | | ◇ | | | PE Activity Elective | 1 | | | | | • | | | |
| 2 | STEM | SEMESTER TOTAL | 13.5 | 4.5 | 3 | 4 | 2 | 13 | 2 | 2 | STEM | SEMESTER TOTAL | 15.5 | 2.5 | 3 | 7 | 3 | 8.5 | 2 | |
| 2 | labs | | | | | | | | | 2 | labs | | | | | | | | | |

‡ Adv Biol=BIOL371,372,315,464,465;FNDT485

Credit Breakdown

Gen Ed Credits Breakdown

Course-type Legend
Cred = Course Credit
M = Major
C = Cognate
GE = General Ed
E = Elective
UD = Upper Div

Credit type
Total Credits
Major
Cognate
Gen Ed
Electives, Minor, etc
UD

Chart

| |
|------|
| 124 |
| 38.0 |
| 32 |
| 49 |
| 5 |
| 30 |

AU Requirement

| | |
|-----|---|
| 124 | ✓ |
| 38 | ✓ |
| 32 | ✓ |
| 48 | ✓ |
| 0 | ✓ |
| 30 | ✓ |



| | Code | Chart | AU Req't | |
|--------------------------|------|-----------|-----------|----------|
| Religion | R | 12 | 12 | ✓ |
| Language & Communication | LC | 9 | 9 | ✓ |
| History | Hi | 6 | 6 | ✓ |
| Humanities | Hu | 6 | 6 | ✓ |
| Social Sciences | SS | 6 | 6 | ✓ |
| Service | S | 2 | 2 | ✓ |
| Computer | C | 3 | 3 | ✓ |
| Wellness | PE | 4 | 4 | ✓ |
| TOTAL | | 48 | 48 | ✓ |

Legend: [Red Box] Reqt NOT Met; [Green Check] Reqt Met

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