Chemistry and Biochemistry Department Industrial Chemistry Option Curriculum Year: 2013-2014

Your department has developed this road plan, taking into account prerequisites and schedule restrictions.

Students should pay attention to these concerns when deviating from this plan.

| Year 1 | Fall | Units | Winter | Units | Spring | Units | Comment | | | | |
|--------|----------------------|-------|------------------------|-------|------------------------|-------|--|--|--|--|--|
| | CHM 121/L | 4 | CHM 122/L | 4 | CHM 123/L | 4 | | | | | |
| | MAT 114 | 4 | PHY 131/131L | 4 | PHY 132/132L | 4 | | | | | |
| | BIO 115/L/A | 5 | MAT 115 | 4 | MAT 116 | 4 | | | | | |
| | G.E. Area A1-3 | 4 | G.E. Area A1-3 | 4 | G.E. Area A1-3 | 4 | | | | | |
| | | | Unrestricted electives | (3) | | | | | | | |
| | Total Units | 17 | Total Units | 19 | Total Units | 16 | | | | | |
| | | | | Г | otal Units for Year | 52 | | | | | |
| | | | | | | | | | | | |
| Year 2 | Fall | Units | Winter | Units | Spring | Units | Comment | | | | |
| | CHM 221/L | 4 | CHM 315/318L | 4 | CHM 316/319L | 4 | | | | | |
| | CHM 314 / 317L | 4 | CS 128 | 4 | STA 309 | 3 | | | | | |
| | PHY 133/133L | 4 | G.E. Area C2 | 4 | HST 202 GE Area D1b | 4 | | | | | |
| | G.E. Area C1 | 4 | PLS 201 GE Area D1a | 4 | GE Area C3 | 4 | | | | | |
| | | | | | | | | | | | |
| | Total Units | 16 | Total Units | 16 | Total Units | 16 | | | | | |
| | Total Units for Year | | | | | | | | | | |
| · | | | | | | | | | | | |
| Year 3 | Fall | Units | Winter | Units | Spring | Units | Comment | | | | |
| | CHM 304/304A or 311 | 4 (3) | CHM 305 or 312 | 3 | CHM 313 | 3 | One GE synthesis course each in Areas B, C, and D must be completed after | | | | |
| | GE Area C4 | 4 | Elective Support | 3 | Elective Support | 3 | all the lower division courses in the specific area are completed. (e.g., B5 | | | | |
| | CHM 342/L | 4 | CHM 344/L | 4 | CHM 343/L | 4 | may be taken after completion of B1- | | | | |
| | EC 201/Area D | 4 | G.E. Area D3 | 4 | CHM 340 | 4 | 4.) | | | | |
| | | | CHM 352A/L | 3 | SCI 471 | 2 | | | | | |

| | I | | T | | | | | | | | |
|--------|-------------------------------|----------------------|-------------------------------|-------|----------------------|-------|---|--|--|--|--|
| | Total Units | 15-16 | Total Units | 17 | Total Units | 16 | | | | | |
| | | | | П | Total Units for Year | 48-49 | | | | | |
| | | | | | | | | | | | |
| Year 4 | Fall | Units | Winter | Units | Spring | Units | Comment | | | | |
| | CHM 424/L | 4 | Option Adv. Core Elective^ | 3 | CHM 492 | 3 | *CHM 422/L (Sp) or 424/L (F) may be replaced by taking CHM | | | | |
| | | | CHM 491 | 3 | CHM 493 | 2 | 423/L (W), approval via general academic petition. ^Option advanced electives may be chosen from approved 400-level chemistry courses, please see advisor or department chair. | | | | |
| | Option Adv. Core Elective^ | 3(4) | GE Area D4 | 4 | CHM 422/L* | 4 | | | | | |
| | CHM 321/L or 327/L or 401 | 4 (3) | PSY 201/GE Area E | 4 | GE Area B5 | 4 | | | | | |
| | SCI 472 | 2 | CHM 328/L(if 327/L taken) | (4) | | | | | | | |
| | | | | | | | | | | | |
| | Total Units | 12-14 | Total Units | 14-18 | Total Units | 13 | | | | | |
| | Total Chits | Total Units for Year | | | 39-45 | | | | | | |
| | | | | | | | | | | | |
| Tota | l Units on Plan | | 180 | | | | | | | | |
| | Major Core Units | | 75-80 | | | | | | | | |
| | Major Support Un | | 46 | | | | | | | | |
| | General Education | Units | 68 | | | | | | | | |
| | Unrestricted Electi | ve Units | 0-3 | | | | | | | | |

Cooperative education is especially important to this option. The student is encouraged to take a full-time cooperative education position (4 units) in local industry during the summer between either the sophomore/junior years or the junior/senior years.