

APPENDIX B

Course Requirements for the University Degree of Bachelor of Science in Chemistry

| CMCC courses | credits | UNE Equivalency Course List | credits |
|---|--------------|--|---------|
| BIO 131 Biology I | 3 | BIO 106/L Biology II | 4 |
| BIO 132 Biology I lab | 1 | | |
| BIO 133 Biology II | 3 | BIO 105/L Biology I | 4 |
| BIO 134 Biology II lab | 1 | | |
| BIO 115 Anatomy & Physiology I | 3 | BIO 208/L Anatomy & Physiology I | 4 |
| BIO 116 Anatomy & Physiology I lab | 1 | | |
| BIO 117 Anatomy & Physiology II | 3 | BIO 209/L Anatomy & Physiology II | 4 |
| BIO 118 Anatomy & Physiology II lab | 1 | | |
| CHY 121 General Chemistry I | 3 | CHE 110/L General Chemistry I | 4 |
| CHY 122 General Chemistry I lab | 1 | | |
| CHY 123 General Chemistry II | 3 | CHE 111/L General Chemistry II | 4 |
| CHY 124 General Chemistry II lab | 1 | | |
| CHY 221 Organic Chemistry I | 3 | CHE 210/L Organic Chemistry I | 5 |
| CHY 222 Organic Chemistry I lab | 2 | | |
| CHY 251 Organic Chemistry II | 3 | CHE 211/L Organic Chemistry II | 5 |
| CHY 252 Organic Chemistry II lab | 2 | | |
| MAT 122 College Algebra ^A | 3 | SAS 022 Advanced Algebra & Problem Solving ^A | 3 |
| MAT 132 Precalculus | 3 | MAT 180 Precalculus | 3 |
| MAT 283 Calculus I or MAT 135 | 4 or 3 | MAT 190 Calculus I or MAT 120 Statistics | 4 or 3 |
| ENG 101 College Writing or ENG 105 College Writing Workshop | 3 or 4 | ENG 110 Composition | 4 |
| COM 100 Public Speaking | 3 | SPC 100 Effective Public Speaking (EXP) | 3 |
| PHI 111 Ethics | 3 | PHI 199 Philosophy Elective (EXP) | 3 |
| Humanities or Social Sciences Electives ^{BC} | 6 | Human Traditions ^B or Social Global Awareness ^C | 6 |
| General Elective ^D | 3 | Human Traditions or Social Global Awareness or Studio Art ^D | 3 |
| Total CMCC credits | 61-63 | | |
| | | Courses to complete Chemistry major at UNE | |
| | | PHY 210 Physics I | 4 |
| | | PHY 211 Physics II | 4 |
| | | CHE 350 Biochemistry I | 5 |
| | | CHE 280 Inorganic Chemistry | 3 |
| | | CHE 307 Quantitative Analysis | 5 |
| | | CHE 370 Physical Chemistry I | 4 |
| | | CHE 371 Physical Chemistry II | 3 |
| | | CHE Chemistry Elective | 3 |

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|--|-----|---|------------|
| | | CHE 401 Seminar | 1 |
| | | CHE 375 Advanced Lab | 2 |
| | | CHE 407 Instrumental Analysis | 5 |
| | | MAT 195 Calculus II | 4 |
| | | MAT 200 Calculus III | 4 |
| | | ENV 104 Introduction to Environmental Issues | 3 |
| | | Studio Art | 3 |
| | | Human Traditions or Social Global Awareness | 3 |
| | | CIT 400 Citizenship | 1 |
| | | 2 Advanced Studies | 6 |
| | | TOTAL credits | 123 |
| Optional courses meeting equivalency criteria | | | |
| PSY 101 Introduction to Psychology | 3 | PSY 105 Introduction to Psychology | 3 |
| PSY 111 Developmental Psychology | 3 | PSY 250 Lifespan Development in Context (SGA) | 3 |
| PHY 142 & 143 Physics I w/ lab | 3+1 | PHY 110 General Physics I w lab | 4 |
| BIO 222 & 223 Genetics w/ lab | 3+1 | BIO 207 Organismal Genetics or BIO 200 Human Genetics | 4-5 |
| BIO 255 & 256 Forensics Science w/ lab | 3+1 | BIO 200-level elective | 3-4 |
| BUS 220 Managing People and Organizations | 3 | BUMG 200 Management | 3 |

NOTES

- A: SAS courses do not count towards the 120 credits for graduation.
- B: Human Traditions I & II are equivalent to CMCC HIS 151 & 152 respectively; 2 courses required.
- C: Social Global Awareness courses can be selected from the following: PSY 201 Social Psychology, PSY 111 Developmental Psychology, SOC 200 Issues in Diversity, SOC 201 Sociology of Aging, SOC 215 Sociology of Gender, SOC 220 Sociology of the Family; 2 courses required. Other courses may apply to this second-year theme of the CORE curriculum upon review by the appropriate department.
- D: Studio Art satisfies Creative Arts Experience; 1 course required.
- E: If students are unable to take courses at CMCC that cover Human Traditions or Social Global Awareness, they may fulfill General Elective requirement identified in UNE's curriculum plans. This means that students would take the Human Traditions or Social Global Awareness credits at UNE.

APPENDIX C

Remaining Courses for the University Degree of Bachelor of Science in Chemistry

| UNE FALL III | | UNE SPRING III | |
|--|--------|---|--------|
| COURSE | CREDIT | COURSE | CREDIT |
| PHY 210 Physics I | 4 | PHY 211 Physics II | 4 |
| CHE 350 Biochemistry I | 5 | MAT 195 Calculus II | 4 |
| CHE 307 Quantitative Analysis | 5 | CHE 280 Inorganic Chemistry | 3 |
| Social Global Awareness or Human Traditions | 3 | Advanced Studies | 3 |
| | | ENV 104 Introduction to Environmental Issues | 3 |
| | 17 | | 17 |

| UNE FALL IV | | UNE SPRING IV | |
|------------------------------|--------|--------------------------------|--------|
| COURSE | CREDIT | COURSE | CREDIT |
| CHE 370 Physical Chemistry I | 4 | CHE 371 Physical Chemistry II | 3 |
| MAT 200 Calculus II | 4 | CHE 375 Advanced Lab | 2 |
| CHE 401 Seminar | 1 | CHE 407 Instrumental Analysis* | 5 |
| Advanced Studies | 3 | CIT 400 Citizenship | 1 |
| Studio Art | 3 | CHE Chemistry Elective | 3 |
| | 15 | | 14 |

* Will require pre-req over-ride for credit in CHE 371