**COURSES THAT FULFILL GENERAL EDUCATION REQUIREMENTS (Courses printed in dark text are required.)**

| CONTENT AREA | COURSE NUMBER AND COURSE TITLE | TOTAL CREDITS |
| --- | --- | --- |
| ENGLISH & COMMUNICATION | **ENG 121: ENGLISH COMPOSITION I (REQUIRED)****ENG 122: ENGLISH COMPOSITION II (REQUIRED)** | 6 |
| MATHEMATICS | **MAT 201: CALCULUS I (REQUIRED)** | 5 |
| ARTS & HUMANITIES**(SELECT ONE)** | ART 110: ART APPRECIATIONHUM 115: WORLD MYTHOLOGYMUS 120: MUSIC APPRECIATIONPHI 112: ETHICS | 3 |
| HISTORY**(SELECT ONE)** | HIS 122: U.S. HISTORY SINCE CIVIL WARHIS 244: HISTORY OF LATIN AMERICAHIS 247: 20TH CENTURY WORLD HISTORY | 3 |
| SOCIAL & BEHAVIORAL SCIENCES**(SELECT ONE)** | ANT 101: CULTURAL ANTHROPOLOGYECO 201: PRINCIPLES OF MACROECONOMICSECO 202: PRINCIPLES OF MICROECONOMICSPSY 101: GENERAL PSYCHOLOGY I | 3 |
| NATURAL & PHYSICAL SCIENCES | **CHE 111: GENERAL COLLEGE CHEMISTRY I WITH LAB (REQUIRED)****CHE 112: GENERAL COLLEGE CHEMISTRY II WITH LAB (REQUIRED)** | 10 |
| GENERAL EDUCATION CREDITS | 30 |

**ADDITIONAL REQUIRED COURSES FOR CHEMISTRY, A.S.**

| CONTENT AREA | COURSE NUMBER AND COURSE TITLE | TOTAL CREDITS |
| --- | --- | --- |
| MATHEMATICS | **MAT 202: CALCULUS II (REQUIRED)** | 5 |
| MATHEMATICS | **MAT 203: CALCULUS III (REQUIRED)** | 4 |
| NATURAL & PHYSICAL SCIENCES | **PHY 211: PHYSICS: CALCULUS BASED I WITH LAB (FALL ONLY) (REQUIRED)** | 5 |
| NATURAL & PHYSICAL SCIENCES | **PHY 212: PHYSICS: CALCULUS BASED II WITH LAB (SPRING ONLY) (REQUIRED)** | 5 |
| NATURAL & PHYSICAL SCIENCES | **CHE 211: ORGANIC CHEMISTRY I WITH LAB (FALL ONLY) (REQUIRED)** | 5 |
| NATURAL & PHYSICAL SCIENCES | **CHE 212: ORGANIC CHEMISTRY II WITH LAB (SPRING ONLY) (REQUIRED)** | 5 |
| ADDITIONAL PROGRAM CREDITS | 29 |

**ELECTIVE COURSES**

| COURSE NUMBER AND COURSE TITLE | TOTAL CREDITS |
| --- | --- |
|  SELECT ONE: If students take MAT204, one of the five credits will count as the elective credit and it is not necessary to take a one credit elective.PED 129: ZUMBAPED 143: YOGA IPED 161: TAI CHI I | 1 |
|  TOTAL CREDIT HOURS | 60 |

**IMPORTANT: Please work with a Pathways Advisor in order to create a plan based on where you would like transfer. See the notes on the second page of this Academic Course Map.**

 (The department recommends taking the courses in this order to complete the degree.
FOR COURSES THAT ARE NOT REQUIRED: If you cannot register for the course on this map or want to take one that is not listed, please talk to your pathway advisor.)

|  |  |
| --- | --- |
| SEMESTER 1 | ­ CREDITS |
| **ENG 121: English Composition I (REQUIRED)** | 3 |
| **CHE 111: General College Chemistry I with Lab (REQUIRED)** | 5 |
| **MAT 201: Calculus I (REQUIRED)** | 5 |
| ANT 101: Cultural Anthropology OR ECO 201: Principles of Macroeconomics OR ECO 202: Principles of Microeconomics OR PSY 101: General Psychology I | 3 |
|  SEMESTER CREDITS | 16 |
| SEMESTER 2 | ­ CREDITS |
| **CHE 112: General College Chemistry II with Lab (REQUIRED)** | 5 |
| **MAT 202: Calculus II (REQUIRED)** | 5 |
| **ENG 122: English Composition II (REQUIRED)** | 3 |
| PED 129: Zumba OR PED 143: Yoga I OR PED 161: Tai Chi I | 1 |
| SEMESTER CREDITS | 14 |
| SEMESTER 3 | ­ CREDITS |
| **CHE 211: Organic Chemistry I with Lab (REQUIRED)** | 5 |
| **PHY 211: Physics: Calculus Based I with Lab (REQUIRED)** | 5 |
| **MAT 203: Calculus III (REQUIRED)** | 4 |
| SEMESTER CREDITS | 14 |
| SEMESTER 4 | ­ CREDITS |
| **CHE 212: Organic Chemistry II with Lab (REQUIRED)** | 5 |
| **PHY 212: Physics: Calculus Based II with Lab (SPRING ONLY) (REQUIRED)** | 5 |
| ART 110: Art Appreciation OR HUM 115: World Mythology OR MUS 120: Music Appreciation OR PHI 112: Ethics | 3 |
| HIS 122: U.S. History Since Civil War OR HIS 244: History of Latin America OR HIS 247: 20th Century World History | 3 |
| SEMESTER CREDITS | 16 |

1 Placement into courses is dependent on test scores or credit for prior learning. See a Pathways Advisor for details. Plans that include ESL, CCR, and AAA courses will increase the total number of hours to completion.

**Note 1:** This statewide transfer articulation agreement in Chemistry does not fulfill requirements for the gtPathways general education curriculum or the Associate of Science degree prior to transfer; however, this agreement does guarantee a student, if admitted, junior standing and completion of the baccalaureate degree within an additional 60 semester hours at the receiving institution.

**Note 2:** Completion of the receiving institution’s lower division general education requirements is fulfilled only under the condition that one gtPathways-approved course in arts and humanities (AH1, AH2, AH3, or AH4) and one gtPathways-approved course in social and behavioral sciences (SS1, SS2, or SS3) are successfully completed at the receiving institution within the first 30 hours or 12 calendar months.

**Note 3:** Students transferring to a 4-yr college/university under this Chemistry agreement are encouraged to ‘reverse’ transfer the one gtPathways course in arts and humanities and the one gtPathways course in social and behavioral sciences (Note #2 above) back to their community college in order to complete the gtPathways general education program and to earn their Associate of Science degree with a Chemistry designation.

**Note 4:** Lecture and laboratory portions of organic chemistry, CHE 211 and CHE 212, must not be taken in an online delivery format.