**COURSES THAT FULFILL GENERAL EDUCATION REQUIREMENTS**

| 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 THREE)** | ART 110: ART APPRECIATION  HUM 115: WORLD MYTHOLOGY  MUS 120: MUSIC APPRECIATION  PHI 112: ETHICS | 9 |
| HISTORY | HIS 122: U.S. HISTORY SINCE CIVIL WAR  HIS 244: HISTORY OF LATIN AMERICA  HIS 247: 20TH CENTURY WORLD HISTORY | 3 |
| SOCIAL & BEHAVIORAL SCIENCES  **(SELECT ONE)** | ANT 101: CULTURAL ANTHROPOLOGY  ECO 201: PRINCIPLES OF MACROECONOMICS  ECO 202: PRINCIPLES OF MICROECONOMICS  PSY 101: GENERAL PSYCHOLOGY I | 3 |
| NATURAL & PHYSICAL SCIENCES | **PHY 211: PHYSICS: CALCULUS BASED I WITH LAB (FALL ONLY) (REQUIRED)**  **PHY 212: PHYSICS: CALCULUS BASED II WITH LAB (SPRING ONLY) (REQUIRED)** | 10 |
| GENERAL EDUCATION CREDITS | | 36 |

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

| CONTENT AREA | COURSE NUMBER AND COURSE TITLE | | TOTAL CREDITS |
| --- | --- | --- | --- |
| MATHEMATICS | **MAT 202: CALCULUS II (REQUIRED)** | | 5 |
| MATHEMATICS | **MAT 203: CALCULUS III OR MAT 204: CALCULUS III WITH ENGINEERING**  **APPLICATIONS (REQUIRED)** | | 4 or 5 |
| MATHEMATICS | **MAT 265: DIFFERENTIAL EQUATIONS OR MAT 261: DIFFERENTIAL EQUATIONS WITH ENGINEERING APPLICATIONS OR**  **MAT 266: DIFFERENTIAL EQUATIONS WITH LINEAR ALGEBRA (SEE PATHWAY ADVISOR)** | | 3 OR 4 |
| NATURAL & PHYSICAL SCIENCES | **PHY 213: PHYSICS: CALCULUS BASED III MODERN PHYSICS (REQUIRED)** | | 3 |
| NATURAL & PHYSICAL SCIENCES | **CHE 111: GENERAL COLLEGE CHEMISTRY I WITH LAB (REQUIRED)** | | 5 |
| NATURAL & PHYSICAL SCIENCES OR COMPUTER SCIENCE | **CHE 112: GENERAL COLLEGE CHEMISTRY II WITH LAB OR**  **CSC 160: COMPUTER SCIENCE I: JAVA (SEE PATHWAY ADVISOR)** | | 5 OR 4 |
| ADDITIONAL PROGRAM CREDITS | | | 24 - 27 |
| TOTAL CREDIT HOURS | | 60 - 63 | |

PLEASE NOTE: PSY101 and PHI112 are the courses recommended by the department, but any GT Pathways Social & Behavioral Sciences

course may be taken in place of PSY101 and any GT Pathways Arts and Humanities course may be taken in place of PHI112 to meet the general

education requirements. Students planning to transfer to University of Colorado Boulder must take CHE 112, students planning to transfer to

University of Northern Colorado must take CSC 160 instead of CHE 112, and students planning to transfer to Fort Lewis College or University

of Colorado-Colorado Spring must take CSC 160 in addition to the course indicated above. Students planning to transfer to Colorado School of Mines must take all 200 level classes for Arts & Humanities, History, and Social & Behavioral Sciences. Please consult a Guided Pathways Advisor when making changes.

(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.)

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| --- | --- |
| 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 OR  CSC 160: Computer Science I: JAVA (See Pathway Advisor)** | 4-5 |
| **MAT 202: Calculus II (REQUIRED)** | 5 |
| **ENG 122: English Composition II (REQUIRED)** | 3 |
| ART 110: Art Appreciation OR HUM 115: World Mythology OR MUS 120: Music Appreciation OR PHI 112: Ethics | 3 |
| SEMESTER CREDITS | 15-16 |
| SEMESTER 3 | ­ CREDITS |
| **PHY 211: Physics: Calculus Based I with Lab (FALL ONLY) (REQUIRED)** | 5 |
| **MAT 203: Calculus III OR MAT 204: Calculus III with Engineering Applications (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 |
| SEMESTER 4 | ­ CREDITS |
| **PHY 212: Physics: Calculus Based II with Lab (SPRING ONLY) (REQUIRED)** | 5 |
| **MAT 265: Differential Equations OR MAT 261: Differential Equations with Engineering Applications OR MAT 266: Differential Equations with Linear Algebra (See Pathway Advisor)** | 3-4 |
| ART 110: Art Appreciation OR HUM 115: World Mythology OR MUS 120: Music Appreciation OR PHI 112: Ethics | 3 |
| **PHY 213: Physics: Calculus Based III Modern Physics (REQUIRED)** | 3 |
| SEMESTER CREDITS | 14-15 |

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.