**COURSES THAT FULFILL GENERAL EDUCATION REQUIREMENTS**

| CONTENT AREA | COURSE NUMBER AND COURSE TITLE | CREDITS |
| --- | --- | --- |
| ENGLISH & COMMUNICATION | **ENG 121: ENGLISH COMPOSITION I (REQUIRED)**  **ENG 122: ENGLISH COMPOSITION II (REQUIRED)** | 6 |
| MATHEMATICS | **MAT 201: CALCULUS I (REQUIRED)**  **MAT 202: CALCULUS II (REQUIRED)**  **MAT 204: CALCULUS III WITH ENGINEERING APPLICATIONS (REQUIRED)** | 15 |
| HISTORY | HIS 247: 20th CENTURY WORLD HISTORY | 3 |
| SOCIAL & BEHAVIORAL SCIENCES | ECO 201: PRINCIPLES OF MACROECONOMICS  ECO 202: PRINCIPLES OF MICROECONOMICS | 6 |
| NATURAL & PHYSICAL SCIENCES | **CHE 111: GENERAL COLLEGE CHEMISTRY I WITH LAB (REQUIRED)**  **PHY 211: PHYSICS: CALCULUS BASED I WITH LAB (FALL ONLY) (REQUIRED)**  **PHY 212: PHYSICS: CALCULUS BASED II WITH LAB (SPRING ONLY) (REQUIRED)** | 15 |
| GENERAL EDUCATION CREDITS | | 45 |

**ADDITIONAL REQUIRED COURSES FOR PRE-ENGINEERING TRACK**

| CONTENT AREA | COURSE NUMBER AND COURSE TITLE | CREDITS |
| --- | --- | --- |
|  | **CSC 119: INTRODUCTION TO PROGRAMMING (REQUIRED)** | 3 |
|  | **EGG 106: ROBOTICS DESIGN (REQUIRED)** | 1 |
|  | **EGG 151: INTRODUCTION TO EXPERIMENTAL DESIGN (REQUIRED)** | 2 |
|  | **EGG 132: ENGINEERING DATA ANALYSIS (REQUIRED)** | 1 |
| ADDITIONAL PROGRAM CREDITS | | 7 |
| TOTAL CREDIT HOURS | | 52 |

PLEASE NOTE: The Engineering Track is designed for transfer, and it does not lead to an Associate’s Degree. If you wish to obtain an Associate’s Degree please consult with your Pathway Advisor to plan the remaining credits for your degree. Depending on the type of engineering degree you are seeking and your intended transfer institution, you may need to take CHE 112: General College Chemistry II. Please talk to your Pathway Advisor to determine if you should take this class.

PLEASE NOTE: The Engineering Track is designed for transfer, and it does not lead to an Associate’s Degree. If you wish to obtain an Associate’s Degree please consult with your Pathway Advisor to plan the remaining credits for your degree. Depending on the type of engineering degree you are seeking and your intended transfer institution, you may need to take CHE 112: General College Chemistry II. Please talk to your Pathway Advisor to determine if you should take this class.

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.

The department recommends taking the courses in this order to complete the degree.

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| --- | --- |
| SEMESTER 1 | ­ CREDITS |
| **ENG 121: English Composition I (see Pathway Advisor )** | 3 |
| **CHE 111: General College Chemistry I with Lab(REQUIRED)** | 5 |
| **MAT 201: Calculus I (REQUIRED)** | 5 |
| SEMESTER CREDITS | 13 |
| SEMESTER 2 | ­ CREDITS |
| **MAT 202: Calculus II (REQUIRED)** | 5 |
| **ENG 122: English Composition II (REQUIRED)** | 3 |
| **EGG 106: Robotics Design (REQUIRED and** **needs** **permission from the instructor )** | 1 |
| **CSC 119: Introduction to Programming (see Pathway Advisor)** | 3 |
| SEMESTER CREDITS | 12 |
| SEMESTER 3 | ­ CREDITS |
| **PHY 211: Physics: Calculus Based I with Lab (FALL ONLY) (REQUIRED)** | 5 |
| **MAT 204: Calculus III with Engineering Applications (REQUIRED)** | 5 |
| **EGG 132: Engineering Data Analysis (REQUIRED)** | 1 |
| ECO 201: Principles Of Macroeconomics OR ECO 202: Principles Of Microeconomics | 3 |
| SEMESTER CREDITS | 14 |
| SEMESTER 4 | ­ CREDITS |
| **PHY 212: Physics: Calculus Based II with Lab (SPRING ONLY) (REQUIRED)** | 5 |
| **EGG 151: Introduction to Experimental Design (REQUIRED and** **needs** **permission from the instructor )** | 2 |
| HIS 247: 20th Century World History | 3 |
| ECO 201: Principles Of Macroeconomics OR ECO 202: Principles Of Microeconomics | 3 |
| SEMESTER CREDITS | 13 |

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.