YEARS 1 AND 2: Associate in Engineering Degree | YEARS 3 AND 4: Bachelor of Science in Civil Engineering The suggested pathways included on this document show coursework that fulfills requirements for the Associate in Engineering Degree at MCCKC as well as requirements for the Bachelor of Science in Civil Engineering degree at William Jewell college.
For official course, degree, and graduation requirements, students should refer to each institution's catalog which supersedes this document.

## WILLIAM JEWELL COLLEGE

| SEMESTER 1-FALL |  |
| :---: | :---: |
| William Jewell College Course | William Jewell Degree Requirement Futfilled |
| CHE 121: General Chemistry 1 (4) CHE 1211: General Chemistry 1 Lab (1) | Requirement for Major |
| CTI 102: Written Communications | Level 1 Foundations: English Composition Requirement Fulfilled |
| CVE 111: Introduction to Civil Engineering and Design | Requirement for Major |
| HIS 121: Foundations of US History (or) HIS 122: The Modern United States (or) POL 150: Introduction to American Government | *Level 2: Explorations: Power and Justice (1 of 2 classes required from 2 different disciplines) |
| MAT 109: Calculus I | Level 1 Foundations: Mathematics Requirement Fulfilled |
| SCI 999: Science Elective | Basic Science Requirement for Major |


| SEMESTER 2-SPRING |  |
| :---: | :---: |
| ART 999 MUS 999 | *Level 2: Explorations: Culture and Traditions (1 of 2 classes required from 2 different disciplines) |
| ELE 999 | Elective |
| MAT 200: Calculus II (4) | Requirement for Major |
| PHY 213: General Physics (5) PHY 213L: General Physics Lab | Requirement for Major |


| ECO 202: Principles of Macroeconomics |
| :--- | :--- |
| ECO 101: Principles of Microeconomics |$\quad$| *Level 2: Explorations: Power and Justice (2 of 2 classes |
| :--- |
| required from 2 different disciplines) |


| SEMESTER 4-FALL |  |  |  |
| :---: | :---: | :---: | :---: |
| Science | PHYS 221: Engineering Physics II (5) | PHY 214: General Physics II (5) <br> PHY 214L: General Physics II Lab | Professional Development Elective Required for Major |
| Mathematics | MATH 210: Analytic Geometry and Calculus III (5) | MAT 201: Calculus III (4) | Requirement for Major |
| Required Engineering Course | ENGR 229: Statics (3) | EGR 230: Statics | Requirement for Major |
| Elective | ENGR 215: Engineering Statistics and Computation (3) | DTS 218: Applied Statistics | Requirement for Major |
|  |  |  | Total Hours Completed: 16 |
| SEMESTER 5-SPRING |  |  |  |
| Elective | CHEM 112: General College Chemistry II (5) | CHE 122: General Chemistry II (4) CHE 122L: General Chemistry II Lab (1) | Elective |
| Elective | ENGR 230: Dynamics (3) | EGR 231: Dynamics (3) | Requirement for Major |
| Elective | ENGR 240: Mechanics of Materials (3) | EGR 233: Mechanics of Solids (4) | Requirement for Major |
| Elective | ETEC 152: Engineering Graphics and CADD 1 (5) | EGR 120: Engineering Graphics (2) | Requirement for Major |

To complete the Critical Thought and Inquiry (CTI) Curriculum, the remaining CTI courses listed below must be taken at William Jewell College:

Level 2 CTI: Sacred Secular (4 Credit Hours) CTI 100: The Responsible Self (4 Credit Hours) CTI 150: Identity and Society (2 Credit Hours) CTI 400 Capstone (4 Credit Hours)
*Any course designated as a "Level 2 Explorations course" will transfer as an elective if the student transfers to Jewell with less than 26 hours completed post-high school graduation OR does not successfully complete the 2 classes required for each category.

To be admitted to Jewell: transfer students must have at minimum transferrable GPA of at least a 2.5 with at least 26 hours completed post-high school graduation.

The courses suggested in this guide are the preferred courses that best prepare students for success at William Jewell College. For a Level 2 Explorations requirement in the William Jewell College core curriculum to be fulfilled using transfer credit, students MUST have successfully completed two (2) courses in two (2) different disciplines.
MCCKC courses used to fulfill William Jewell College Level 2 Core Curriculum Requirements are as follows:

Culture and Traditions:
ART 108 OR MUS 108 AND ENGL 268
Power and Justice:
HIST 120 OR HIST 121 AND ECON 210 OR ECON 211

| SEMESTER 6-SUMMER |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| Humanities Elective | ENGL 268: Women's Literature (3) | ENG: 255: Literary Topics | *Level 2: Explorations: Culture and Traditions (2 of 2 <br> classes required from 2 different disciplines) |  |  |  |  |  |
| Elective | CSIS 123: Programming Fundamentals (3) | DTS 190: Introduction to Programming | Elective |  |  |  |  |  |
| Total Hours Completed: 6 |  |  |  |  |  |  |  |  |


 needs of students.

## Bachelor of Science in

## Civil Engineering

## Suggested Plan

This Suggested Course Advisement Plan is an unofficial publication of William Jewell College.
For official course requirements, students should refer to the institution catalog which supersedes this document.
*Students must earn a grade of $C$ - or higher in each of these required courses.

| FALL 1 |  |  |
| :---: | :---: | :---: |
| CVE 350/L | Structural Analysis \& Laboratory | 4 Credit Hours |
| CVE 370/L | Fluid Mechanics \& Laboratory | 4 Credit Hours |
| CVE 380/L | Civil Engineering Materials \& Laboratory | 4 Credit Hours |
| CTI 100 | The Responsible Self | 4 Credit Hours |
|  |  | 16 Credit Hours |
|  |  |  |
| SPRINIG 1 |  |  |
| CVE 240/L | Sustainability and Environmental Engineering \& Laboratory | 4 Credit Hours |
| CVE 351 | Introduction to Structural Design | 3 Credit Hours |
| CVE 360/L | Geotechnical Engineering \& Laboratory | 4 Credit Hours |
| CTI 150 | Identity and Society | 2 Credit Hours |
| CVE 112 | Introduction to Civil Engineering \& Design II | 2 Credit Hours |
|  |  | 15 Credit Hours |
|  |  |  |
| FALL 2 |  |  |
| BUS 202 | Principles of Management | 4 Credit Hours |
| CVE 412 | Capstone Design I | 3 Credit Hours |
| EGR 414 | Senior Engineering | 1 Credit Hour |
| CVE 4XX | In-Depth Civil Engineering Design Elective | 3 Credit Hours |
| Level 2 CTI: Sacred Secular | Course of Student's Choosing | 4 Credit Hours |
|  |  | 15 Credit Hours |


| SPRING 2 |  |  |
| :---: | :---: | :---: |
| CVE 221/L | Geomatics \& Laboratory | 3 Credit Hours |
| CTI 4XX | CTI Capstone | 4 Credit Hours |
| CVE 413 | Capstone Design II | 3 Credit Hours |
| CVE 4XX | In-Depth Civil Engineering Design Elective | 3 Credit Hours |
| PHY 490 | Physics of Sustainability | 4 Credit Hours |
|  |  | 17 Credit Hours |

