



# Civil Engineering

---

**Graduates of our Civil Engineering program** are able to design effective solutions to engineering problems in accord with applicable standards, understand the mathematics and physical phenomena relevant to their fields and how these relate to a Christian worldview, and recognize state-of-the-art engineering equipment and methods relevant to their field.



scan to learn more



# Civil Engineering

## Example 4-Year Plan\*

|                 | YEAR 1                              | YEAR 2                                | YEAR 3                                | YEAR 4                                      |       |
|-----------------|-------------------------------------|---------------------------------------|---------------------------------------|---|-------|
| FALL SEMESTER   | CHM 111<br>General College Chem     | EGR 211<br>Solid Mechanics            | CIE 201<br>Geomatics Engineering      | CIE 451<br>Urban Hydrology                  | Core  |
|                 | EGR 100<br>Calling and Vocation     | MAT 261<br>Calculus III               | EGR 330<br>Thermal Fluid Sciences     | Civil Engineering Elective                  | Major |
|                 | EGR 101/102<br>Intro to Engineering | MAT 265<br>Probability and Statistics | EGR 331<br>Thermal Fluid Sciences Lab | EGR 401<br>Christian Ethics and Engineering | Major |
|                 | BIB 112<br>Old Testament Intro      | PHY 201<br>College Physics I          | Math/Science Elective                 | EGR 481<br>Senior Design Project            | Major |
|                 | ENG 101<br>English Composition      | HUM 103<br>Invitation to Humanities   | Society: Group B or C                 | Engineering Elective                        | Major |
|                 | MAT 161<br>Calculus I               | HUM 303<br>Perspectives               |                                       | Math/Science Elective                       | Major |
|                 | BIB 113<br>New Testament Intro      | HUM 203<br>Making the West            | BIB 300<br>Biblical Worldview         | PED 103<br>Physical Fitness                 | Core  |
|                 | Reason and Rhetoric Option          | CIE 231<br>Structural Analysis        | CIE 407<br>Geotechnical Engineering   | POL 352<br>Great Issues in Politics         | Core  |
|                 | EGR 101/102<br>Intro to Engineering | EGR 212<br>Linear Circuit Analysis I  | Civil Engineering Elective            | Civil Engineering Elective                  | Major |
|                 | CHM 221<br>Organic Chemistry I      | MAT 405<br>Differential Equations     | ECO 270<br>Princ Microeconomics       | EGR 482<br>Senior Design Project            | Major |
| SPRING SEMESTER | MAT 162<br>Calculus II              | PHY 202<br>College Physics II         | EGR 332<br>Fluid Mechanics            | Engineering Elective                        | Major |
|                 |                                     |                                       |                                       | Elective                                    | Major |
|                 |                                     |                                       |                                       |   |       |

- Core
- Major
- Elective

\*Courses listed are examples and subject to change. Your class schedule will be developed with an advisor and may differ from what is listed above.

**GENEVA COLLEGE**  
**OFFICE OF ADMISSIONS**  
 3200 College Avenue  
 Beaver Falls, PA 15010  
 800.847.8255