

# Mechanical Engineering, Biomed + ME

## MTH 201 - Four year plan

| Fall          |                                                                      |    | Winter  |                              |    | Summer            |                     |   |
|---------------|----------------------------------------------------------------------|----|---------|------------------------------|----|-------------------|---------------------|---|
| 1st Year      |                                                                      |    |         |                              |    |                   |                     |   |
| MTH 201       | Calculus I                                                           | 4  | MTH 202 | Calculus II                  | 4  | MTH 203           | Calculus III        | 4 |
| WRT 150       | Strategies in Writing                                                | 4  | PHY 230 | Physics I                    | 5  |                   |                     |   |
| EGR 100       | Intro to EGR                                                         | 1  | EGR 113 | Intro to CAD/CAM             | 1  |                   |                     |   |
| EGR 111       | Intro to EGR Graphics                                                | 1  | EGR 185 | First-Year EGR Design        | 2  |                   |                     |   |
| EGR 112       | Applied Programming for EGR                                          | 2  | STA 220 | Statistical Modeling for EGR | 2  |                   |                     |   |
| CHM 125+126   | Chemistry 1                                                          | 4  | EGR 220 | EGR Measure & Data           | 1  |                   |                     |   |
|               |                                                                      | 16 |         |                              | 15 |                   |                     | 4 |
| 2nd Year      |                                                                      |    |         |                              |    |                   |                     |   |
| Fall in Spain |                                                                      |    | Winter  |                              |    | Summer            |                     |   |
| EGR 214       | Circuit Analysis I                                                   | 3  | MTH 302 | Linear Algebra/Diff Eq       | 4  | EGR 290           | Engineering Co-op I | 3 |
| EGR 215       | Circuit Analysis I Lab                                               | 1  | EGR 309 | Machine Design I             | 3  | General Education |                     | 3 |
| EGR 226       | Microcontroller Program                                              | 3  | EGR 310 | Machine Design I Lab         | 1  |                   |                     |   |
| EGR 227       | Microcontroller Program Lab                                          | 1  | EGR 312 | Dynamics                     | 3  |                   |                     |   |
| EGR 209       | Mechanics and Machines                                               | 4  | PHY 231 | Physics II                   | 5  |                   |                     |   |
| EGR 289       | EGR Professionalism                                                  | 1  |         |                              |    |                   |                     |   |
|               |                                                                      | 12 |         |                              | 16 |                   |                     | 6 |
|               | Take course at GVSU in different semester than original program plan |    |         |                              |    |                   |                     |   |
|               | Take course in Spain                                                 |    |         |                              |    |                   |                     |   |

## MTH 124 Five year plan

| Fall              |                             |    | Winter            |                              |    | Summer  |                     |   |
|-------------------|-----------------------------|----|-------------------|------------------------------|----|---------|---------------------|---|
| 1st Year          |                             |    |                   |                              |    |         |                     |   |
| MTH 124           | Precalculus: F&M            | 5  | MTH 201           | Calculus I                   | 4  |         |                     |   |
| WRT 150           | Strategies in Writing       | 4  | CHM 125+126       | Chemistry I                  | 4  |         |                     |   |
| EGR 100           | Intro to EGR                | 1  | EGR 108           | Applied Program for EGR II   | 2  |         |                     |   |
| EGR 111           | Intro to EGR Graphics       | 1  | EGR 113           | Intro to CAD/CAM             | 1  |         |                     |   |
| EGR 104           | Applied Program for EGR I   | 2  | General Education |                              | 3  |         |                     |   |
|                   |                             | 13 |                   |                              | 14 |         |                     |   |
| 2nd Year          |                             |    |                   |                              |    |         |                     |   |
| MTH 202           | Calculus II                 | 4  | MTH 203           | Calculus III                 | 4  |         |                     |   |
| EGR 185           | First-Year EGR Design       | 2  | General Education |                              | 3  |         |                     |   |
| PHY 230           | Physics I                   | 5  | STA 220           | Statistical Modeling for EGR | 2  |         |                     |   |
| General Education |                             | 3  | EGR 220           | EGR Measure & Data           | 1  |         |                     |   |
| EGR 289           | EGR Professionalism         | 1  | PHY 231           | Physics II                   | 5  |         |                     |   |
|                   |                             | 15 |                   |                              | 15 |         |                     |   |
| 3rd Year          |                             |    |                   |                              |    |         |                     |   |
| Fall in Spain     |                             |    | Winter            |                              |    | Summer  |                     |   |
| EGR 209           | Mechanics and Machines      | 4  | General Education |                              | 3  | EGR 290 | Engineering Co-op I | 3 |
| EGR 214           | Circuit Analysis I          | 3  | EGR 309           | Machine Design I             | 3  |         |                     |   |
| EGR 215           | Circuit Analysis I Lab      | 1  | EGR 310           | Machine Design I Lab         | 1  |         |                     |   |
| EGR 226           | Microcontroller Program     | 3  | EGR 312           | Dynamics                     | 3  |         |                     |   |
| EGR 227           | Microcontroller Program Lab | 1  | MTH 302           | Linear Algebra/Diff Eq       | 4  |         |                     |   |
|                   |                             | 12 |                   |                              | 14 |         |                     | 3 |

## MTH 201 Five year plan

| Fall              |                           |    | Winter            |                              |   | Summer  |                     |   |   |
|-------------------|---------------------------|----|-------------------|------------------------------|---|---------|---------------------|---|---|
| 1st Year          |                           |    |                   |                              |   |         |                     |   |   |
| MTH 201           | Calculus I                | 4  | MTH 202           | Calculus II                  | 4 |         |                     |   |   |
| WRT 150           | Strategies in Writing     | 4  | CHM 125+126       | Chemistry I                  | 4 |         |                     |   |   |
| EGR 100           | Intro to EGR              | 1  | EGR 108           | Applied Program for EGR II   | 2 |         |                     |   |   |
| EGR 111           | Intro to EGR Graphics     | 1  | EGR 113           | Intro to CAD/CAM             | 1 |         |                     |   |   |
| EGR 104           | Applied Program for EGR I | 2  | General Education |                              |   |         |                     |   | 3 |
| General Education |                           | 3  |                   |                              |   |         |                     |   |   |
|                   |                           | 15 |                   |                              |   | 14      |                     |   |   |
| 2nd Year          |                           |    |                   |                              |   |         |                     |   |   |
| MTH 203           | Calculus III              | 4  | MTH 302           | Linear Algebra/Diff Eq       | 4 |         |                     |   |   |
| EGR 185           | First-Year EGR Design     | 2  | PHY 231           | Physics II                   | 5 |         |                     |   |   |
| PHY 230           | Physics I                 | 5  | STA 220           | Statistical Modeling for EGR | 2 |         |                     |   |   |
| General Education |                           | 3  | EGR 220           | EGR Measure & Data           | 1 |         |                     |   |   |
| EGR 289           | EGR Professionalism       | 1  | General Education |                              |   |         |                     |   | 3 |
|                   |                           | 15 |                   |                              |   | 15      |                     |   |   |
| 3rd Year          |                           |    |                   |                              |   |         |                     |   |   |
| Fall in Spain     |                           |    | Winter            |                              |   | Summer  |                     |   |   |
| EGR 214           | Circuit Analysis I        | 3  | EGR 312           | Dynamics                     | 3 | EGR 290 | Engineering Co-op I | 3 |   |
| EGR 215           | Circuit Analysis I Lab    | 1  | EGR 309           | Machine Design I             | 3 |         |                     |   |   |
| EGR 209           | Mechanics and Machines    | 4  | EGR 310           | Machine Design I Lab         | 1 |         |                     |   |   |
| EGR 226           | Microntroller Program     | 3  | General Education |                              |   |         |                     |   | 3 |
| EGR 227           | Microntroller Program Lab | 1  | General Education |                              |   |         |                     |   | 3 |
|                   |                           | 12 |                   |                              |   | 13      |                     |   |   |
|                   |                           |    |                   |                              |   | 3       |                     |   |   |