

# Biomedical Equipment and Information Systems Technology

## Center for Innovative Technologies Division

2014-2015 Curriculum

**Note: All degree seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.**

| Course     | Title                                       | Pre-Reqs | Lec | Lab | Credit Hours |
|------------|---------------------------------------------|----------|-----|-----|--------------|
| Semester 1 |                                             |          |     |     |              |
| BMT-151    | Biomedical Instrumentation 1                |          | 3   | 3   | 4            |
| CIT-190    | Career Prep: Information & Engineering Tech |          | 1   | 0   | 1            |
| EET-121    | Digital Systems 1                           |          | 2   | 2   | 3            |
| EET-131    | Circuit Analysis 1                          |          | 3   | 2   | 4            |
| ENG-101    | English Composition                         |          | 3   | 0   | 3            |
| MAT-XXX    | Mathematics Elective 1                      |          | 3   | 2   | 4            |
|            |                                             |          |     |     | 19           |

|            |                              |                    |   |   |    |
|------------|------------------------------|--------------------|---|---|----|
| Semester 2 |                              |                    |   |   |    |
| EET-122    | Digital Systems 2            | EET 121            | 3 | 2 | 4  |
| EET-132    | Circuit Analysis 2           | EET 131, MAT 125   | 3 | 2 | 4  |
| ENG-10X    | English Composition Elective |                    | 3 | 0 | 3  |
| MAT-XXX    | Mathematics Elective 2       |                    | 3 | 2 | 4  |
| PHY-XXX    | Physics Elective             | PHY 121 or BMT 151 | 2 | 3 | 3  |
|            |                              |                    |   |   | 18 |

|            |                                        |         |   |    |   |
|------------|----------------------------------------|---------|---|----|---|
| Semester 3 |                                        |         |   |    |   |
| BMT-291    | Full-Time Cooperative Education 1: BMT | BMT 151 | 1 | 40 | 2 |
|            |                                        |         |   |    | 2 |

|            |                                  |                             |   |   |    |
|------------|----------------------------------|-----------------------------|---|---|----|
| Semester 4 |                                  |                             |   |   |    |
| BIO-117    | Human Body in Health and Disease | BIO 111 (min. grade C)      | 3 | 0 | 3  |
| BMT-252    | Biomedical Instrumentation 2     | BMT 151, EET 122, & EET 132 | 3 | 2 | 4  |
| EET-251    | Electronics                      | EET 132                     | 3 | 3 | 4  |
| NETC-121   | Network Communications 1         | See Catalog                 | 2 | 2 | 3  |
|            |                                  |                             |   |   | 14 |

|            |                              |                  |   |   |    |
|------------|------------------------------|------------------|---|---|----|
| Semester 5 |                              |                  |   |   |    |
| BMT-253    | Biomedical Instrumentation 3 | BMT 252, EET 251 | 3 | 2 | 4  |
| COMM-110   | Public Speaking              | ENG 101          | 3 | 0 | 3  |
| CULT-110   | Social Issues in Technology  | ENG 101          | 3 | 0 | 3  |
| ECO-1XX    | Economics Elective           |                  | 3 | 0 | 3  |
| XXX-XXX    | Technical Elective           |                  | 2 | 3 | 3  |
|            |                              |                  |   |   | 16 |

|            |                                        |         |   |    |    |
|------------|----------------------------------------|---------|---|----|----|
| Semester 6 |                                        |         |   |    |    |
| BMT-292    | Full-time Cooperative Education 2: BMT | BMT 291 | 1 | 40 | 2  |
|            |                                        |         |   |    | 2  |
| Total      |                                        |         |   |    | 71 |

Economics Elective: ECO 105, ECO 110

English Composition Elective: ENG 102, ENG 103, ENG 104, ENG 105

Mathematics Electives: Take one of the following series: MAT 125 and MAT 126; or MAT 251 and MAT 252

Physics Elective: PHY 122 or PHY 151

Technical Elective: EET 220, EMET 240