

# BIOMEDICAL TECHNOLOGY SYSTEMS - AAS

Offered at: Madisonville Community College

Program Plan Number: 1504017029

| Course                           | Title   | Credits |
|----------------------------------|---|---------|
| <b>General Education Courses</b> |   |         |
| ENG 101                          | Writing I   | 3       |
| MAT 126                          | Technical Algebra and Trigonometry  | 3       |
| or MAT 150                       | College Algebra   |         |
| PHY 171                          | Applied Physics   | 4       |
|                                  | Social/Behavioral Sciences  | 3       |
|                                  | Heritage/Humanities   | 3       |
|                                  | Subtotal  | 16      |
| <b>Technical Support Courses</b> |   |         |
| AIT 1001                         | Basic Electrical Knowledge  | 2       |
| AIT 1101                         | Electrical Power Distribution   | 1       |
| BIO 135                          | Basic Anatomy and Physiology with Laboratory                                    | 4       |
| CIT 105                          | Introduction to Computers (fulfills digital literacy requirement)               | 3       |
| CIT 111                          | Computer Hardware and Software  | 4       |
| CIT 160                          | Intro to Networking Concepts  | 4       |
| CIT 180                          | Security Fundamentals   | 3       |
|                                  | Subtotal  | 21      |
| <b>Technical Courses</b>         |   |         |
| BTS 100                          | Biomedical Technology Systems: A Career Perspective                             | 1       |
| BTS 110                          | Environmental Risks and Precautionary Measures for the BTS Service Professional | 1       |
| BTS 120                          | Essentials of Biomedical Electronics I  | 2       |
| BTS 125                          | Essentials of Biomedical Electronics II   | 2       |
| BTS 130                          | Medical Equipment Management I  | 2       |
| BTS 140                          | Science Principles Employed in Medical Technologies                             | 1       |
| BTS 200                          | Patient Care Support and Management Systems                                     | 2       |
| BTS 210                          | Diagnostic Medical Equipment and Non-Radiographic Imaging Modalities            | 2       |
| BTS 220                          | Laboratory Devices, Instruments, and Analyzers                                  | 2       |
| BTS 230                          | Medical Equipment Management II   | 2       |
| BTS 250                          | Introduction to Medical-Based IT Networks and Standards                         | 2       |
| BTS 260                          | Radiographic Imaging Modalities   | 2       |
| BTS 270                          | Therapeutic Equipment Modalities I  | 2       |
| BTS 275                          | Therapeutic Equipment Modalities II   | 2       |
| BTS 280                          | General Care Monitoring and Instrumentation                                     | 2       |
| BTS 285                          | Critical Care Monitoring and Instrumentation                                    | 2       |
| BTS 290                          | Clinical Experience in Biomedical Technology Systems                            | 2       |

|                      |           |
|----------------------|-----------|
| Subtotal             | 31        |
| <b>Total Credits</b> | <b>68</b> |

## Suggested Electives

| Course  | Title   | Credits |
|---------|---|---------|
| BTS 299 |   |         |
| BTS 170 | Service and Support Foundations in Hemodialysis Systems | 2       |