1. **Biotechnology**

Leveling courses: None for Biology/Biochemistry and UNT-BMEN majors with Biotech track

For other majors, leveling courses: Biology I and II, Microbiology, Genetics

**Suggested coursework for MS degree:**

**Core – 6 SCH:**

BMEN 5940

BMEN 5210

BMEN 5315 or BMEN 5007 or BMEN 5100

**Thesis – 6 SCH**

**BMEN Courses: 9 SCH**

BMEN 5317 – Advanced Biotech

BMEN 5313 – Bioengineering of cellular systems

BMEN 5326 – Biomolecular Engineering

**Electives: 9 SCH from**

BMEN 5331 – Drug delivery and Nano-medicine

BMEN 5325 - Nanotechnology

BMEN 5330 – 3D Bioprinting

BMEN 5327 – Immunoengineering

(For non-thesis option, replace 6 SCH of thesis with 9 SCH of BMEN courses)
2. **Biomaterials**

Leveling courses: None for Biomedical Engineering majors

For other majors, leveling courses: BMEN 3321 - Biomaterials

**Suggested coursework for MS degree:**

**Core – 6 SCH:**
- BMEN 5940
- BMEN 5210
- BMEN 5315 or BMEN 5007 or BMEN 5100

**Thesis – 6 SCH**

**BMEN Courses: 9 SCH**
- BMEN 5321 – Biomaterials Compatibility
- BMEN 5316 – Biopolymers and flexible bioelectronics
- BMEN 5318 – Biomedical Implants

**Electives: 9 SCH**
- BMEN 5314 – Advanced tissue engineering and regenerative medicine
- BMEN 5324 - Applications of BioMEMS
- BMEN 5330 – 3D Bioprinting

(For non-thesis option, replace 6 SCH of thesis with 9 SCH of BMEN courses)
3. **Rehabilitation and Biomechanics Track**

Leveling courses: None for Biomedical Engineering majors

For other majors, leveling courses: BMEN 3312 - Biomechanics

**Suggested coursework for MS degree:**

**Core – 6 SCH:**
- BMEN 5940
- BMEN 5210
- BMEN 5315 or BMEN 5007 or BMEN 5100

**Thesis – 6 SCH**

**BMEN Courses: 9 SCH**
- BMEN 5311 – Rehabilitation engineering
- BMEN 5332 – Soft Robotics
- BMEN 5280 – AI for Wearables and Healthcare

**Electives: 9 SCH from**
- BMEN 5324 - Applications of BioMEMS
- BMEN 5321 – Biomaterials Compatibility
- BMEN 5316 – Biopolymers and flexible bioelectronics
- BMEN 5318 – Biomedical Implants
- BMEN 5900 – Special Problems

(For non-thesis option, replace 6 SCH of thesis with 9 SCH of BMEN courses)
4. **Bioinstrumentation Track**

Leveling courses: None for Biomedical Engineering majors

For other majors, leveling courses: BMEN 1400, BMEN 2210, BMEN 2320

**Suggested coursework for MS degree:**

**Core – 6 SCH:**
- BMEN 5940
- BMEN 5210
- BMEN 5315 or BMEN 5007 or BMEN 5100

**Thesis – 6 SCH**

**BMEN Courses: 9 SCH**
- BMEN 5310 – Clinical instrumentation
- BMEN 5332 – Soft Robotics
- BMEN 5280 – AI for Wearables and Healthcare

**Electives: 9 SCH from**
- BMEN 5322 - Medical imaging
- BMEN 5316 – Biopolymers and flexible bioelectronics
- BMEN 5900 – Special Problems
- BMEN 5311 – Rehabilitation engineering

(For non-thesis option, replace 6 SCH of thesis with 9 SCH of BMEN courses)
5. **Bioinformatics Track**

Leveling courses: None for Biomedical Engineering majors

For other majors, leveling courses: BMEN 1400, BMEN 2210, BMEN 2320

**Suggested coursework for MS degree:**

**Core – 6 SCH:**

BMEN 5940  
BMEN 5210  
BMEN 5315 or BMEN 5007 or BMEN 5100

**Thesis – 6 SCH**

**BMEN Courses: 9 SCH**

BMEN 5800 - Biocomputing  
BMEN 5820 – Bioinformatics  
BMEN 5280 – AI for Wearables and Healthcare

**Electives: 9 SCH from Data Science**

INFO 5501 – Fundamentals of Data Analytics  
INFO 5502 – Analytical tools techniques, and methods  
INFO 5505 – Applied Machine Learning for Data Scientists

(For non-thesis option, replace 6 SCH of thesis with 9 SCH of BMEN courses)