

MDDA Medical Technology - Device Emphasis

Overview

The Medical Technology-Device Emphasis prepares students for careers in medical device development, design, and implementation. This track combines engineering principles with medical knowledge to create innovative solutions for healthcare challenges. Students learn about device regulations, biomedical engineering concepts, clinical applications, and the business aspects of bringing medical devices to market. Graduates are well-positioned for roles in medical device companies, hospitals, regulatory agencies, or entrepreneurial ventures in healthcare technology.

Sample 4-Year Plan

FIRST YEAR	Credits	SECOND YEAR	Credits
1st Semester		3rd Semester	
ENGL 101	3	ECOL 182R	3
MATH 112	3	PHYS 102/181	4
BSM 101	2	ACCT 250	3
Gen Ed - Building Connections	3	Gen Ed - Exploring Perspectives	3
Second Language	4	UNIV 101	1
Total	15	Total	14
2nd Semester		4th Semester	
ENGL 102	3	PHYS 103/182	4
CHEM 130	4	PSIO 201	4
MCB 181R & L	4	BSM 305	3
Statistics (MATH 163/263)	3	ECON 200	3
Gen Ed - Exploring Perspectives	3	Gen Ed - Exploring Perspectives	3
Total	17	Total	17

THIRD YEAR	Credits	FOURTH YEAR	Credits
5th Semester		7th Semester	
PSIO 202	4	LAW 478A	3
BSM 441	3	BME 486	3
PHCL 386	3	HSD 410	3
BNAD 302	3	Emphasis Elective	3
Gen Ed - Exploring Perspectives	3	General Elective	3
Total	16	Total	15
6th Semester		8th Semester	
BNAD 303	3	LAW 479B	3
ENTR 481A	2	LAW 480B	3
BSM 4** (Hands-on Experience)	3	BME 295C	1
HSD 401	3	Emphasis Elective	3
Gen Ed - Building Connections	3	UNIV 301	1
Total	14	Total	11

Device Emphasis Electives (Choose 3 additional courses):

- BME 4** Technology and Big Data
- FCM 4** Clinical Application
- HSD 420 Healthy Design Practices
- LAW 476A Drug Discovery
- MED 497 Research Development
- PHP 205 Telehealth Fundamentals