

Class of 2024 Master of Science in Medical Device Engineering (MSMDE)

Students in the MSMDE program are required to complete a minimum of **30.0 credits** over the course of one year of study. The coursework is comprised of required courses, elective courses, and a capstone project.

Core Requirements

Fall Core Courses	Credits	Spring Core Courses	Credits
SCI 5700 Medical Diagnostics	3.0	ENG 5300 Medical Devices	3.0
ENG 6340 Device and Diagnostic Product Development	3.0	ENG 6350 Medical Device Production	3.0
PDEV 5000 Team Masters Project	3.0	PDEV 5000 Team Masters Project	3.0
Electives	6.0	Electives	6.0
MATH 5000 Application of Statistics (Based on placement exam)	(1.5)		
PDEV 5300 Business/Science Communication (Based on placement exam)	(1.5)		
PDEV 5100 Professional Development	0		
Subtotal	15.0	Subtotal	15.0

Core Courses

All students must complete the named courses above to complete the MSMDE degree.

Elective Courses

All MSMDE students are required to complete a minimum of 12 additional credits of courses. Not all electives are offered every year. Refer to the KGI Henry E. Riggs School of Applied Life Sciences course catalog for information.

Independent Study/Independent Research (IS/IR) Courses

Students may enroll in 1.5 or 3.0 credits of independent study or research per semester. To enroll in IS/IR, the student must complete the Independent Study/Research Contract and return it to the Registrar's Office before the last day to add courses. Independent study is the acquisition of skills, knowledge, or information that is known among professionals. For example, learning lab skills or preparing for a certification exam. Independent research is comprised of work aimed at generating novel techniques, knowledge, or synthesis of information.

Please see the [Independent Study/Research](#) page for more information. To fill out an IS/IR Contract, [click here](#).

Academic Petitions

Examples of requests include, but are not limited to, the following:

- Course overload: permission to take more than 19.5 credits
- Exceptions to registration deadlines (i.e., late add/drop)
- Variances in cross-registration and general education requirements
- Students requesting part-time status
- Exceptions to graduation requirements or other KGI academic policies

Please see the [Academic Petitions](#) page for more information. To fill out an Academic Petition, [click here](#).