

Curriculum of Study for Master of Integrated Innovation for Products & Services – Advanced Study Degree

Fall 2021: First Term

Required Course units: 54

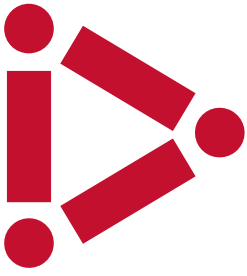
Minimum Units: 54

Maximum Units: 60

Curriculum Plan

Course #	Course Title	Semester	Units
Required Courses			
49-700*	Engineering Thinking and Practice	Mini 1	6
49-701*	Visual Communication for Innovators	Mini 1	6
49-702*	Business Management Thinking and Practice	Mini 1	6
49-703	Build Your New Career	Semester	6
49-704	Integrated Innovation Seminar & Workshop Series	Semester	0
49-710	Product Design Thinking and Practice	Mini 2	6
49-712	User Research: Theory, Methods and Practice	Mini 1	6
49-713	Prototyping for the Internet of Things	Mini 2	6
49-733	Designing Smart Systems	Mini 1	6
49-740	Integrated Product Development Methods	Mini 2	6
49-725	Business Models and Strategy	Mini 2	6
Elective Courses			
Various	Elective: Students have the ability to choose one 6-unit elective in either Mini 1 or Mini 2	Varies	0-6

* Students are required to complete two of these courses (49-700, 49-701, 49-702). Assignment is based on undergraduate degree and/or work experience. These courses support the interdisciplinary goals of the degree program, rooted in engineering, design and business. If needed,



some students may be required to take all three courses if lacking appropriate background.

Spring 2022: Second Term

Required Course Units: 30

Minimum Units: 42

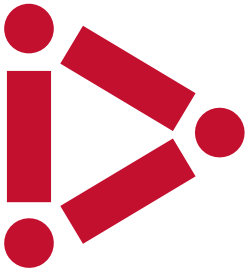
Maximum Units: 48

Course #	Course Title	Semester	Units
Required Courses			
49-704	Integrated Innovation Seminar & Workshop Series	Semester	0
49-726	Essential Skills for Leaders	Mini 4	6
49-720	Managing Products and Brands	Mini 3	6
49-730	Design for Manufacturing, Assembly and Sustainability	Mini 3	6
49-741	Integrated Product Development Capstone	Semester	12
Elective Courses			
Various	Electives: Students have the ability to choose up to 18 units of electives, either: - One 12-unit Semester course and one 6-unit Mini 4 course; or - Two 6-unit Mini 3 courses and one 6-unit Mini 4 course.	Varies	12-18

Summer 2022

Required Course Units: 3

Course #	Course Title	Semester	Units
49-746	Integrated Innovation Institute Internship/Practica	Semester	3



Fall 2022: Third Term

Required Course Units: 12

Minimum Units: 36

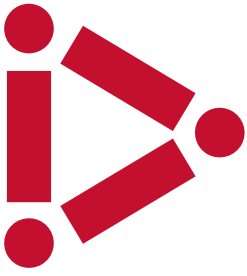
Maximum Units: 48

Course #	Course Title	Semester	Units
Required Course			
49-747	Innovation Mindset in Practice	Semester	12
Elective Courses			
Various	Electives: Students have the ability to choose up to 36 units of electives	Varies	24-36

Curriculum Requirements

- The MIIPS Advanced Study curriculum requires students to complete a minimum of 141 units of course work over three semesters and a summer internship.
 - Students must maintain full-time status (minimum of 36 units) during three semesters: fall term one, spring term two, and fall term three.
- Students must complete at least 42 units of electives relevant to the product development process and must be approved by their academic advisor. This includes 12 units of electives completed within the Integrated Innovation Institute (49-xxx).
- In order to work with industry sponsors during in the degree-required [Integrated Product Development capstone course](#), signing contractual terms regarding intellectual property and non-disclosure agreements may be required to complete the course project.
- All coursework must be completed with graduate level courses.
- Students must have a minimum QPA of 3.0 to graduate.

For additional details regarding degree requirements, review the full iii Student Handbook



All degree course plans are reviewed and updated annually during the spring semester. If you have any questions regarding updates, please email: iii@cmu.edu.

Last Updated: 04/21/2021

**Carnegie
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integrated
innovation
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