

This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability. For counseling appointments call 916.608.6510.

FIRST YEAR

Semester 1:

9 units

CAT.	COURSE	TITLE	GE AREA
Req	MAKR 100	Intro to Microcontrollers and Physical Computing	3
Req	MAKR 101	The Internet of Things	3
Req	MAKR elective	See core list below	3

Semester 2:

6 units

Req	MAKR 111	Digital Fabrication	3
Req	MAKR 110	3D Design for Additive Manufacturing	3

SECOND YEAR

Semester 3:

1 units

CAT.	COURSE	TITLE	GE AREA
Req	MAKR 290	Modern Making Capstone Project	1

MAKR Elective List

A minimum of 3 units from the following:

- BUS 357: Entrepreneurship, Innovation, and New Enterprise Development (3 units)
- ECE 452: Making for Educators (3 units)
- SOC 379: Making Social Change (3 units)
- TA 420: Stagecraft (3 units)
- TA 423: Introduction to Scene Design for the Stage (3 units)

Notes:

- The certificate in Modern Making combines hands-on experience in modern making technologies with design thinking, enabling the development of creative prototypes and projects.
- Students will gain experience in modern making technologies, techniques, materials and production processes, including digital fabrication and physical computing.
- The Modern Making certificate is ideal for entrepreneurs developing products and services, artists creating interactive installations, educators developing STEM activities for use in the classroom, hobbyists, makers, inventors, and anyone interested in enhancing job skills and solving real-world problems.+

EXPLANATION OF CATEGORIES

Req	Required Core	A course that is required for this degree
GE	General Education	A course that fulfills a specific general education requirement for this degree, which can be replaced with another course that meets the same requirement
Elec	Elective	A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree