

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.

Total Units: 6

First Year

Semester 1

6 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
MAKR 110 3D Design for Additive Manufacturing	3		
MAKR 111 Digital Fabrication	3		

Notes

- Digital fabrication is the process of translating a digital design developed on a computer into a physical object using a variety of techniques, equipment, materials and production processes. Students completing the Digital Fabrication certificate will develop experience with design, development and production of physical objects, using a combination of hardware and software.
- Utilize a variety of tools to create, modify, adapt and prepare files for production using digital fabrication technologies, including 3D printing, laser cutting, and Computer Numerical Control (CNC) milling.

Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs page](#) of the college website.