

DIGITAL FABRICATION AND DESIGN, UNDERGRADUATE CERTIFICATE

Overview

When you study digital fabrication and design, you have access to the Digital Craft Research Lab (DCRL), which houses two distinct spaces designed just for you.

The CAD/FAB Lab houses workstations equipped with 3Dconnexion mice, a digitizing arm, Sense handheld 3D scanner, several 3D printers and more. Students have access to a Form 1 SLA printer, ZCorp 402C 3D printer and a vinyl cutter, as well as bending brakes, bench shears and other basic hand tools. The CAM/FAB LAB has a vertical and horizontal metal cutting bandsaw, three Beaumont metal grinders and a manual tool room lathe. You'll also have access to several numerical controlled machines, including a 4'x8' CNC router and an Epilog laser cutter, as well as a Tormach PCNC 1100 that is capable of machining aluminum, steel and titanium.

Our certificate program gives you plenty of hands-on experience with these cutting-edge tools and techniques to turn your design ideas into tangible objects. And you'll do it all with experienced faculty who are dedicated to helping you develop your skills and achieve your goals, whether that means pursuing a career in product design, digital media or any other field that requires creativity and technical expertise.

Faculty and Staff

Our inspirational faculty and staff make sure students feel welcome and empowered to think outside the box and explore all possibilities of making art at UWM. Visit the Peck School of the Arts directory (<https://uwm.edu/arts/directory/>) to meet these artists, explore their biographies and engage with recent work.

Minors and Certificates

Peck School of the Arts minors and certificates are open to all students who have already earned or are currently seeking a bachelor's degree. Most certificates are also open to those not pursuing a degree (non-degree students).

To be admitted individuals must meet general University admission requirements (<https://catalog.uwm.edu/admission-costs/undergraduate-admission/>). To determine aid eligibility, please review all financial aid requirements (<https://uwm.edu/finances/finances/receiving-financial-aid/eligibility-for-financial-aid/>).

Contact us (<https://uwm.edu/arts/contact/>) to get started and one of our Peck School of the Arts advisors will connect with you about your interests and opportunities.

Undergraduate Advising

Academic advising is a collaborative process that empowers students to realize their maximum educational potential. Students are encouraged to visit the Peck School of the Arts Advising & Student Services page (<https://uwm.edu/arts/students/advising/>) to meet with your advisor prior to each semester's registration period. Advisors provide students with individualized appointments to assist with degree requirements,

course selection, campus resources, college success strategies, graduation assessment, academic policies and more.

Credits and Courses

Students enrolling in the Digital Fabrication and Design Certificate Program are required to earn a minimum of 18 credits. The required credits are organized to be taken sequentially, and range from 200-level courses to 500-level courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.5 or above in all courses counting toward the certificate.

| Code | Title | Credits |
|--------------------------------------|--|-----------|
| Required Introductory Courses | | |
| ART 277 | Introduction to Digital Fabrication | 3 |
| ART 278 | Introduction to Making for Digital Fabrication | 3 |
| 300-Level Elective | | |
| Choose one 3-credit course: | | 3 |
| ART 377 | | |
| ART 378 | Industrial Processes and Fabrication | |
| Required 400+ Courses | | |
| ART 478 | Advanced Digital Fabrication and Craft: | 3 |
| ART 526 | Research in Universal Design and Fabrication | 3 |
| ART 578 | Research in Digital Fabrication and Craft: | 3 |
| Total Credits | | 18 |

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to approval by the Certificate Program Committee.

Contact Information

Advising & Student Services

Theatre Building, Room 120

<https://uwm.edu/arts/contact/>