

# DIGITAL DESIGN AND FABRICATION, UNDERGRADUATE CERTIFICATE

Program Code: UGCT-AS

Cert Code: DDF

## Art and Design Department

Upton Hall 402

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[artdesign.buffalostate.edu/](http://artdesign.buffalostate.edu/) (<http://artdesign.buffalostate.edu/>)

The Digital Design and Fabrication Certificate is a collection of specialized courses designed to give students credentials and applied expertise in design ideation to enhance their marketability in their chosen field. They will learn digital fabrication processes and product realization to enhance their creative careers in the rapidly expanding field of digital three-dimensional design modeling for additive and subtractive manufacturing processes. This 12-credit certificate will give students a solid understanding of 3D modeling and fabrication, and culminates in a capstone course where the student will undertake and present a special project tailored to their interests in their field and digital fabrication.

## Program Requirements

Code	Title	Credit Hours
<b>Required: Two Foundations Courses (6 credit hours)</b>		
AAD 105	INTRODUCTION TO DIGITAL DESIGN AND FABRICATION	3
DES 338	COMPUTER THREE-DIMENSIONAL MODELING AND RENDERING	3
<b>Required: Specialized Course (3 credit hours) choose one</b>		
AED 398	ART, SOCIETY AND NEW MEDIA TECHNOLOGIES FOR ART EDUCATORS	3
FTT 451	SENIOR PROJECT	
TEC 314	ELECTROMECHANICS	
<b>Required: Capstone Course (3 credit hours)</b>		
AAD 495	SPECIAL PROJECT	1-3
<b>Total Credit Hours</b>		<b>10-12</b>