

BS VISUAL ARTS AP + MA DIGITAL DESIGN & FABRICATION

Program Overview

AP Coordinator & DDF Minor Advisor*	Chad Bridgewater, bridgewc@newpaltz.edu
Program ID	BS Visual Arts AP (277A), MA Digital Design & Fabrication (240)
Credits	BS Visual Arts AP—57 credits inclusive of 9-12 GR credits, MA Digital Design & Fabrication—36 credits including coursework taken as an UG
Program Length	The Accelerated Pathway program may be completed in 10 semesters, but students must complete the graduate degree within 7 years.
Modality	In-person
Full-time/Part-time	Full-time
Transfer Credits	9-12 graduate credits taken while an undergraduate will automatically transfer into the MA program.
MA Capstone	Thesis or Fieldwork

* BS Visual Arts AP students must also enroll in the DDF Minor. Between the AP major and minor, students complete 9-12 graduate credits all of which are transferred into the MA program upon graduate admission.

Program Description

This accelerated plan of study provides a pathway to earning a Bachelor of Science degree in Visual Arts and a Master of Arts degree in Digital Design & Fabrication. Students enrolled in the AP program complete 9-12 graduate credits during their senior year. These credits are offered at the reduced undergraduate tuition rate and fulfill both undergraduate and graduate program requirements.

The MA in Digital Design & Fabrication (DDF) will prepare students to utilize modern digital fabrication methods in the design and fabrication process. Modern methods of fabrication, such as 3D printing, have changed not only how objects are designed, but also changed what can be designed and manufactured. As modern fabrication technologies continue to advance, the worlds of design and manufacturing will change and merge into something much more seamless. Through an approach that blurs traditional boundaries between art, engineering, design, fabrication and science, the DDF program will enable students to take full advantage of advanced manufacturing and fabrication techniques. Graduates will earn the Rhinoceros CAD certification (levels 1 & 2) and Stratasys Additive Manufacturing Certification.

How does it work?

Get started as an undergraduate by declaring Visual Arts AP major (277A) and a DDF minor:

- **Meet** with AP advisor, [Chad Bridgewater](#), to declare the Visual Arts AP major and the DDF Minor.
- **Work** with your AP advisor to select graduate courses that will count towards your major and minor requirements.
- **Apply** for the MA Digital Design & Fabrication program in your senior year.
- **Transfer** 9-12 credits of graduate coursework taken as an undergraduate into your graduate program.

Graduate Admission Requirements

Graduate admission requires submission of:

- Graduate application - select major 240.
- One set of official transcripts for all undergraduate and graduate course work.
- Grades of B or higher in graduate courses taken as a senior.
- Portfolio including samples of completed work. When uploading your portfolio, include a minimum of 15 images.
- Please note that we require a minimum of 10 individual works or projects; additional detail photographs and installation documentation can be included. You may either upload videos or include external links to videos as part of your portfolio. Each work sample must be labeled with the title of work, medium, size, and date. Images can be labeled and ordered as they are uploaded. For good image quality and fast upload, we recommend jpeg images no larger than 1280 x 1280 pixels @ 72 ppi.

Admission Deadlines

July 31	Fall Admission
January 1	Spring Admission

Applications are reviewed on a rolling basis until the program's cohort is filled or until the deadline stated above. Applications submitted after the posted deadline will not be considered. Applying early ensures an easier registration process. Applicants who are admitted later in the admission cycle may find that classes that they wish to enroll in are already full.

BS Visual Arts AP (major 277A)

Code	Title	Credits
Required Foundation Courses (15 Credits)		
ARS100	Drawing: Visual Thinking I	3
ARS101	Drawing: Visual Thinking II	3
ARS102	Design: Color	3
ARS103	Design: Form	3
ARS112	Art Seminar	3
Studio Courses (24 Credits)		

Work with advisor to select a combination of lower and upper division coursework totaling 15 credits.		
AP majors enroll in 9cr of graduate DDF Coursework		
DDF502	Introduction to Computation for Media	3
DDF510	Computer Aided design 1	3
DDF512	Computer Aided Design 2	3
Required Progress Review (3 Credits)		
ARS364	Work in Progress Review I	1.5
ARS365	Work in Progress Review II	1.5
Required Cognate Courses (12 Credits)		
ARH201	Art of the Western World I	3
ARH202	Art of the Western World II	3
Select 2 upper-division art history or art theory courses by advisement. AP majors may substitute ARH526 for one of these electives by advisement.		6
Capstone Course (3 Credits)		
ARS491	Creative Art Projects: BA/BS	3
Total Credits		57

Digital Design & Fabrication Minor

Up to 9 credits of graduate DDF coursework taken as part of the AP major may be applied towards the minor.

Code	Title	Credits
Courses (18-19 Credits)		
DDF205	Computer Aided Design I	3
DDF210	Computer Aided Design II	3
Select one of the following:		3-4
EGM221	Elements of Materials Science	
EGE200	Circuit Analysis	
CHE202	General Chemistry II	
& CHE212	and General Chemistry II Lab	
Any DDF course by advisement		
DDF502	Introduction to Computation for Media	3
DDF510	Computer Aided design 1	3
DDF512	Computer Aided Design 2	3
Total Credits		18-19

MA Digital Design & Fabrication (240)

Code	Title	Credits
Transfer Credits (12 Credits)		
DDF502	Introduction to Computation for Media	3
DDF510	Computer Aided design 1	3
DDF512	Computer Aided Design 2	3
ARH526	Studies in the History of Design *	3
Design & Fabrication Coursework (12 Credits)		
DDF560	Introduction to Designing with Microprocessors	3
DDF555	3D Computational Design	3
DDF701	Advanced Computer Aided Design	3
DDF705	Advanced 3D Printing	3
Electives (6 Credits)		
Select 6 credits of graduate coursework in art, engineering, and/or computer science by advisement.		6

Capstone Experience (6 Credits)		
Enroll in 6 credits of thesis or fieldwork by advisement.		6
DDF790	Thesis Digital Design & Fabric	
DDF794	Fieldwork/Digital Design & Fab	
Total Credits		36

* Students who do not take ARH526 as an undergraduate must complete it as part of their MA program.

Academic Standing Requirements for Accelerated Pathway Students

A cumulative GPA of less than 3.0 in graduate-level courses taken in the undergraduate portion of an accelerated pathway program precludes the student's good standing. Students with a cumulative GPA between 2.75 to 2.99 are strongly advised to reconsider continuing into the graduate program.

MA Program Requirements

Complete the prescribed course work and other requirements within seven years after matriculation. Maintain a cumulative grade point average of 3.0 or better, with no more than two grades below B-.

Graduation Checklist

- Apply for graduation via my.newpaltz.edu under "Graduation" tab according to the schedule in the academic calendar.
- Resolve any pending admission conditions (outlined in your acceptance letter) and/or missing documents if applicable.
- Review your progress report via my.newpaltz.edu to ensure that you have completed all program requirements.
- Remember that only two grades below a B- may be applied to your plan of study
- Contact your advisor if you need to amend your plan or process transfer credit.
- Ensure that you are in good academic standing with a GPA (Grade Point Average) of 3.0 or higher.
- Pass your capstone or culminating assessment.
- Complete your degree within the specified time limit outlined in the Program Overview.

BS Visual Arts AP Program Learning Outcomes

By the time they graduate, all Art majors will be able to:

- Articulate their expanded knowledge of diverse histories and contemporary practices in studio art, design, and art education.
- Demonstrate—in written, visual, and oral forms—an understanding of a work of art or design, in terms of its social, political, cultural, aesthetic, and historical context.
- Develop and articulate self-reflective practices as artists, designers, teachers, and citizens.
- Create collaboration and engagement with local and global art, design, and learning communities.
- Build professional networks to support lifelong learning and sustainable practices.

Upon completion of the BA or BS Visual Arts program, students will be able to demonstrate:

- Well-developed visual sensitivity.
- Technical skills, perceptual development, and understanding of principles of visual organization sufficient to achieve basic visual communication and expression in one or more media.
- An ability to make workable connections between concept and media.
- Some familiarity with the works and intentions of major artists/designers and movements of the past and the present, both in the Western and non-Western worlds.

MA Digital Design & Fabrication Program Learning Outcomes

- Expand knowledge of diverse histories and contemporary practices in studio art, design, and art education
- Demonstrate—in written, visual, and oral forms—an understanding of a work of art or design, in terms of its social, political, cultural, aesthetic, and historical context
- Develop and articulate self-reflective practices as artists, designers, teachers, and citizens
- Create collaboration and engagement with local and global art, design, and learning communities
- Build professional networks to support lifelong learning and sustainable practices