

# Metals/Jewelry/CAD-CAM BFA

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## Overview

The **Bachelor of Fine Arts in Metals/Jewelry/CAD-CAM**, offered by the Department of Art, is recognized as a national leader in the discipline, offering students access to world-class facilities, emergent technology and mentorship.

Students learn both traditional techniques and cutting-edge digital practice and theory in jewelry, metals and computer-aided design and computer-aided manufacturing (CAD-CAM, one of several technologies pioneered for use in metals at Tyler).

Students have access to the resources of Temple, a large, public research university, and Philadelphia, a premier center of jewelry making and a home base for exploring museums and galleries. Leveraging the expertise and professional networks of Tyler faculty—all practicing artists and leaders in the field—students find internships and connect with the regional and national metals and jewelry community.

Tyler students graduate with a broad base of knowledge, critical thinking skills and the technological proficiency needed for success in the jewelry industry, artistic practice or top graduate schools. The proof is in the long list of Tyler MJCC alumni who are thriving at employers ranging from David Yurman to Tiffany & Co.

Each student moves from a common foundation curriculum that introduces materials and processes and prepares them for success in a range of fields of study. Those who select Art as their major will work side-by-side with majors in Visual Studies, Art Education and Art Therapy. The dynamic exchange of ideas that result from these interdisciplinary conversations spur intellectual risk and drive research-based creative concepts.

Upon graduation, students have the practical skill sets and honed aesthetic for successful careers in studio art, art education and design, as well as attend top-tier graduate programs.

**Campus Location:** Main

**Program Code:** TA-METL-BFA

## Concentration

Students may complete an **optional** Concentration in Art Education (p. 4).

## Admissions

Admission to Tyler's Studio Art (Bachelor of Fine Arts) programs is based on a review of academic credentials and portfolio review. For detailed information on how to apply, please visit Tyler's Studio Art admissions page.

## Study Abroad

Students who plan to study abroad should arrange to meet with their academic advisor and the Education Abroad and Overseas Campuses office as early as possible, preferably during the freshman year, in order to explore options and plan the sequence of courses that would be most appropriate.

## Accreditation

Temple University is a non-profit accredited member of the National Association of Schools of Art and Design (NASAD). NASAD establishes national standards for undergraduate and graduate degrees and other credentials for art and design and art/design-related disciplines, and provides assistance to institutions and individuals engaged in artistic, scholarly, educational and other art/design-related endeavors.

## Contact Information

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dbucci@temple.edu

Learn more about the Bachelor of Fine Arts in Metals/Jewelry/CAD-CAM.

*These requirements are for students who matriculated in academic year 2023-2024. Students who matriculated prior to fall 2023 should refer to the Archives to view the requirements for their Bulletin year.*

## Summary of Requirements

The Bachelor of Fine Arts degree in Metals/Jewelry/CAD-CAM may be conferred upon a student by recommendation of the faculty and upon the satisfactory completion of a minimum of 126 semester hours of credit with a minimum cumulative GPA of 2.00. All Metals/Jewelry/CAD-CAM majors must complete the BFA curriculum and General Education requirements.

- Students must earn a C- or better in ART 2401, and ART 2402 or ART 3402 to enter the Metals/Jewelry/CAD-CAM major.
- The seven required Junior/Senior studio courses and ART 4096 (capstone) must be completed with a C- or better to fulfill major requirements.

The faculty encourages taking Metals/Jewelry/CAD-CAM courses in excess of the minimum required. These additional courses count towards required studio electives.

## Major Requirements for BFA in Metals/Jewelry/CAD-CAM

Code	Title	Credit Hours
<b>Sophomore Prerequisite</b>		
ART 2401	Jewelry	3
ART 2402	CAD-CAM I: Introduction to 3D Modeling	3
or ART 3402	CAD-CAM I: Introduction to 3D Modeling	
<b>Junior Requirements</b>		
ART 3406	Junior Metalsmithing (fall only)	3
ART 3407	Junior Metalsmithing (spring only)	3
One specialized Metals course (see list below)		3
ART 2404	Intermediate 3D Modeling	3
or ART 3404	CAD-CAM II: Intermediate 3D Modeling	
<b>Senior Requirements</b>		
ART 4401	Senior Metals and Plastics (fall only)	3
ART 4402	Senior Metals and Plastics (spring only)	3
One specialized Metals course (see list below)		3
ART 4096	Professional Practices in Art (Capstone, WI)	3

## Specialized Metals/Jewelry/CAD-CAM (MJC-C) Courses

Code	Title	Credit Hours
ART 2408	Electroforming Workshop	3
ART 3408	Electroforming Workshop	3
ART 2412	Color in Metals	3
ART 3412	Color in Metals	3
ART 2409	Plastics for Jewelry and Objects	3
ART 3409	Plastics for Jewelry and Objects	3
ART 2405	Machine Tool Processes	3
ART 3405	Advanced 3D Modeling	3
ART 2411	Production Processes	3
ART 3411	Production Processes	3
ART 2407	Casting	3
ART 2414	Casting	3
ART 3417	Metalsmithing	3
ART 3413	Enameling	3
ART 3414	Plastics for Jewelry	3
ART 3415	Lapidary and Stone Setting	3
ART 3416	Photo Processes and Etching Jewelry	3
ART 4404	Rapid Prototyping: 3D Sculpting	3
ART 4403	Senior Seminar in Metals	3
ART 3085	Field Internship	3

## Suggested Academic Plan

Please note that this is a **suggested** academic plan. Depending on your situation, your academic plan may look different.

## Bachelor of Fine Arts in Metals/Jewelry/CAD-CAM

### Suggested Plan for New Students Starting in the 2023-2024 Academic Year

Year 1		
Fall		Credit Hours
FDPR 1511	Foundation Drawing <sup>1</sup>	3
FDPR 1521	2D Foundation Principles	3
FDPR 1531	3D Foundation Principles/W	3
FDPR 1503	Woodshop Fundamentals	1
ARTH 1155 or ARTH 1955	Arts of the World I: Prehistoric to 1300 or Honors Arts of the World I: Prehistoric to 1300	3
ENG 0802 or ENG 0812 or ENG 0902	Analytical Reading and Writing or Analytical Reading and Writing: ESL or Honors Writing About Literature	4
Credit Hours		17
Spring		
FDPR 1512	Foundation Drawing	3
FDPR 1522	2D Foundation Principles	3
FDPR 1532	3D Foundation Principles/C	3
FDPR 1502	Investigations of Art and Design	1
ARTH 1156 or ARTH 1956	Arts of the World II: 1300 to the 21st Century <sup>1</sup> or Honors Arts of the World II: 1300 to the 21st Century	3
IH 0851 or IH 0951	Intellectual Heritage I: The Good Life or Honors Intellectual Heritage I: The Good Life	3
Credit Hours		16
Year 2		
Fall		
ART 2401	Jewelry	3
ART or GAD 2000-2999 Sophomore Studio Electives		3
ART or GAD 2000-2999 Sophomore Studio Electives		3
IH 0852 or IH 0952	Intellectual Heritage II: The Common Good or Honors Intellectual Heritage II: The Common Good	3
GenEd Quantitative Literacy Course <sup>GQ</sup>		4
Credit Hours		16
Spring		
ART 2402 or ART 3402	CAD-CAM I: Introduction to 3D Modeling or CAD-CAM I: Introduction to 3D Modeling	3
ART or GAD 2000-2999 Sophomore Studio Electives		3
ART or GAD 2000-2999 Sophomore Studio Electives		3
GenEd Breadth Course		3
GenEd Breadth Course		3
Credit Hours		15
Year 3		
Fall		
ART 3406	Junior Metalsmithing	3
Specialized MJC-C Course		3
ART or GAD Studio Elective		3
GenEd Breadth Course		3
Art History Elective <sup>2</sup>		4
Credit Hours		16
Spring		
ART 3407	Junior Metalsmithing	3
ART 2404 or ART 3404	Intermediate 3D Modeling or CAD-CAM II: Intermediate 3D Modeling	3

ART or GAD Studio Elective	3
Art History Elective <sup>WI</sup>	4
GenEd Breadth Course	3
<b>Credit Hours</b>	<b>16</b>
<b>Year 4</b>	
<b>Fall</b>	
ART 4401 Senior Metals and Plastics	3
ART 4096 Professional Practices in Art	3
Specialized MJC-C Course	3
GenEd Breadth Course	3
Non-Studio Elective	3
<b>Credit Hours</b>	<b>15</b>
<b>Spring</b>	
ART 4402 Senior Metals and Plastics	3
ART or GAD Studio Elective	3
ART or GAD Studio Elective	3
Open Elective <sup>2</sup>	3
GenEd Breadth Course	3
<b>Credit Hours</b>	<b>15</b>
<b>Total Credit Hours</b>	<b>126</b>

1

These 2 courses constitute the waiver for the GenEd Arts category if the courses are completed with a C- or better.

2

Students completing a 3 credit Art History 2000+ elective **must** select a 4 credit open elective to reach the minimum 126 credits to earn the BFA degree.

**Please Note:** An approved study abroad program waives the GenEd Global/World Society (GG) requirement; however, these credits must be made up with academic coursework taken outside of Tyler departments to be in compliance with BFA accreditation. MJC-C majors interested in studying abroad should consult with an academic advisor to determine if a semester (generally spring semester of second year) or a summer program would be the best option to remain on track for graduation.

## Art Education Concentration

The **Bachelor of Fine Arts with an optional Concentration in Art Education**, offered by the Department of Art, is one of two pathways at the Tyler School of Art and Architecture to earning art teaching certification in Pennsylvania and becoming a teaching artist. Students may also become certified teachers through the Bachelor of Science in Education in Art Education.

Tyler offers students seeking a BFA degree an opportunity to earn Pennsylvania Teacher Certification in Art, K-12. The BFA with Art Education Concentration combines Tyler's art curriculum with approved courses in education and the liberal arts—all with Tyler's uniquely urban, community-based approach.

Offering students access to the resources of both a world-class art school and a large, public research university, Tyler's undergraduate Art Education programs prepare students to become thoughtful art teachers with the extensive knowledge and skills to teach kindergarten through twelfth grade.

Tyler students take full advantage of the school's location in Philadelphia and the city's rich array of schools, communities, museums, galleries and artists, opening up opportunities for artistic growth, research, networking and jobs.

The Tyler faculty is committed to urban art education and the power of collaborating with communities. Tyler students don't just learn how to teach art and grow as artists—they learn how to affect positive change in the communities where they work.

Students must complete BFA requirements along with a three-year sequence in Education and Art Education that begins in the sophomore year. Typically five years are necessary to fulfill all requirements. Students work with both the Art Education faculty advisors and the Tyler academic advisors regarding completion of requirements.

**Campus Location:** Main

## Accreditation

Temple University is a non-profit accredited member of the National Association of Schools of Art and Design (NASAD). NASAD establishes national standards for undergraduate and graduate degrees and other credentials for art and design and art/design-related disciplines, and provides assistance to institutions and individuals engaged in artistic, scholarly, educational, and other art/design-related endeavors.

## Licensure/Certification

Teacher certification is the process used in the US to ensure that prospective K-12 teachers are qualified and prepared to teach at the levels and in the subjects that they intend to teach. Certification in Art Education prepares graduates to teach art to students from K-12. Certification is not always required by private institutions, but some may prefer to hire certified teachers.

In order to become certified in Art Education, students must complete a bachelor's degree from a regionally accredited institution of higher education, pass the Praxis exams required in their state of employment, and satisfy other state-licensing examinations, as applicable.

Temple University is a Pennsylvania state-approved teacher preparation program for K-12 Art. Completion of Temple University's Bachelor of Science in Education in Art Education or Master of Education in Art Education with Teaching Certification satisfies the necessary requirements for graduates to sit for the Praxis Core Academic Skills for Educators, Praxis Subject Assessments, and Praxis Fundamentals.

For certification in some states, students may need to take the Praxis Principles of Learning and Teaching (PLT) exam for their desired grade levels, which they are prepared for through their field placements, classroom observations, and study of human development and pedagogy.

<https://www.education.pa.gov/Educators/Certification/BecomeAnEducator/Pages/ACPSpecialty.aspx>

## Admission

Admission to Tyler's Bachelor of Fine Arts programs is based on a review of academic credentials and portfolio review. For detailed information on how to apply, please visit Tyler's Studio Art admissions page.

## Contact Information

Renee Jackson, Program Head for Art Education  
Tyler Building, Art Education and Community Arts Practices Suite B090C  
215-777-9258  
[renee.jackson@temple.edu](mailto:renee.jackson@temple.edu)

## Summary of Requirements

*These requirements are for students who matriculated in academic year 2023-2024. Students who matriculated prior to fall 2023 should refer to the Archives to view the requirements for their Bulletin year.*

The Bachelor of Fine Arts degree with the Art Education Concentration may be conferred upon a student by recommendation of the faculty and upon the satisfactory completion of a minimum of 155 semester hours of credit with a minimum cumulative GPA of 3.0.

## University Requirements

All Temple students are required to complete the General Education (GenEd) curriculum.

- Successful completion (minimum C-) of FDPR 1511 and ARTH 1156 satisfies the GenEd Arts (GA) requirement.
- Successful completion (minimum C-) of EDUC 2109, SPED 2231, and TESL 3631 satisfies the GenEd Human Behavior (GB) requirement.
- Summer or semester study abroad will satisfy the GenEd Global/World Society (GG) requirement.

## BFA with Art Education Concentration Requirements

ARTE 2001, ARTE 3096, ARTE 4003, ARTE 4088, and ARTE 1001 must be completed with a C or better to fulfill concentration requirements.

Students must earn a minimum grade of C- in required College of Education coursework and additional mathematics requirement to fulfill concentration requirements.

Students in the BFA degree with the Art Education Concentration are required to take a Ceramics studio course and an additional studio course in Glass, Metals/Jewelry/CAD-CAM, or Fibers and Materials Studies; a Painting studio course and an additional studio course in Painting or Sculpture; a Printmaking studio course and an additional studio course in Photography or Graphic Design. These courses may include prerequisite, sophomore, and/or studio courses within the student's chosen BFA major.

Any BFA student who wishes to pursue the Art Education Concentration must arrange to meet with the Art Education faculty advisor to discuss field placement, clearances, and requirements, as the state of Pennsylvania may change requirements after the *Bulletin* information has been posted. It is strongly suggested that students do so during their freshman year.

Code	Title	Credit Hours
<b>Studio Courses</b>		<b>74</b>
Foundation Program (20 credits)		
2000 level Sophomore studios including major prerequisites (18 credits)		
Major studio requirements (24-27 credits, varies depending on major)		
Studio electives (9-12 credits, varies depending on major)		
<b>Art History Courses</b>		<b>12-13</b>
ARTH 1155	Arts of the World I: Prehistoric to 1300	
or ARTH 1955	Honors Arts of the World I: Prehistoric to 1300	
ARTH 1156	Arts of the World II: 1300 to the 21st Century	
or ARTH 1956	Honors Arts of the World II: 1300 to the 21st Century	
2000+ ARTH elective		
2000+ ARTH elective		
<b>General Education Courses</b> <sup>1</sup>		<b>29</b>
<b>Education Requirements</b>		<b>19-18</b>
EDUC 2103	Socio-cultural Foundations of Education in the United States	
EDUC 2109	Adolescent Development for Educators	
SPED 2231	Introduction to Special Education	
SPED 3211	Effective Instructional Strategies for Students with Disabilities	
TESL 3631	Principles and Practice for Teaching English Learners	
Mathematics course (1000 level) for PA Certification		
<b>Art Education Courses</b>		<b>21</b>
ARTE 1001	Professional Practices in Art Education and Art Therapy	
ARTE 2001	Science and Art of Teaching	
ARTE 3096	Art in Elementary and Secondary School	
ARTE 4003	Inclusive Art Education K-12 Students in the Art Room	
ARTE 4088	Student Teaching	
<b>Total Credit Hours</b>		<b>155</b>

1

Students waived from General Education requirements via placement test (GW) or study abroad (GG) must make up the credits with electives to reach the minimum 155 credits to earn the degree.

## Suggested Academic Plan

Please note that this is a **suggested** academic plan. Depending on your situation, your academic plan may look different.

### BFA with Art Education Concentration (Five-Year)

<b>Year 1</b>		
<b>Fall</b>		<b>Credit Hours</b>
ENG 0802	Analytical Reading and Writing	4
or ENG 0812	or Analytical Reading and Writing: ESL	
or ENG 0902	or Honors Writing About Literature	
FDPR 1511	Foundation Drawing <sup>1</sup>	3
FDPR 1521	2D Foundation Principles	3
FDPR 1531	3D Foundation Principles/W	3
FDPR 1503	Woodshop Fundamentals	1
ARTH 1155	Arts of the World I: Prehistoric to 1300	3
or ARTH 1955	or Honors Arts of the World I: Prehistoric to 1300	
<b>Credit Hours</b>		<b>17</b>

<b>Spring</b>		
ARTE 1001	Professional Practices in Art Education and Art Therapy	1
IH 0851 or IH 0951	Intellectual Heritage I: The Good Life or Honors Intellectual Heritage I: The Good Life	3
FDPR 1512	Foundation Drawing	3
FDPR 1522	2D Foundation Principles	3
FDPR 1532	3D Foundation Principles/C	3
FDPR 1502	Investigations of Art and Design	1
ARTH 1156 or ARTH 1956	Arts of the World II: 1300 to the 21st Century <sup>1</sup> or Honors Arts of the World II: 1300 to the 21st Century	3
<b>Credit Hours</b>		<b>17</b>
<b>Year 2</b>		
<b>Fall</b>		
Studio		3
Studio		3
Studio		3
EDUC 2103	Socio-cultural Foundations of Education in the United States	3
IH 0852 or IH 0952	Intellectual Heritage II: The Common Good or Honors Intellectual Heritage II: The Common Good	3
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
Studio		3
Studio		3
Studio		3
EDUC 2109	Adolescent Development for Educators <sup>2</sup>	3
GenEd Quantitative Literacy Course <sup>GQ</sup>		4
<b>Credit Hours</b>		<b>16</b>
<b>Year 3</b>		
<b>Fall</b>		
Studio Major Course		3
Studio Major Course		3
Studio Elective		3
Second Mathematics course for certification <sup>3</sup>		3-4
GenEd Breadth Course		3
<b>Credit Hours</b>		<b>15-16</b>
<b>Spring</b>		
Studio Major Course		3
Studio Major Course		3
ARTE 2001	Science and Art of Teaching	4
SPED 2231	Introduction to Special Education <sup>2</sup>	3
GenEd Breadth Course		3
<b>Credit Hours</b>		<b>16</b>
<b>Year 4</b>		
<b>Fall</b>		
Studio Major Course		3
Studio Major Course		3
2000+ ARTH Elective <sup>3</sup>		4-3
TESL 3631	Principles and Practice for Teaching English Learners <sup>2</sup>	3
GenEd Breadth Course		3
<b>Credit Hours</b>		<b>16-15</b>
<b>Spring</b>		
Studio Major Course		3

Studio Major Course		3
Select one of the following:		3
CRFT (Major Capstone) <sup>WI</sup>		
GAD (Major Capstone) <sup>WI</sup>		
PDS (Major Capstone) <sup>WI</sup>		
2000+ ARTH Elective		3
SPED 3211	Effective Instructional Strategies for Students with Disabilities	3
<b>Credit Hours</b>		<b>15</b>
<b>Year 5</b>		
<b>Fall</b>		
Studio Elective		3
Studio Elective		3
ARTE 3096	Art in Elementary and Secondary School	4
GenEd Breadth Course		3
GenEd Breadth Course		3
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
ARTE 4003	Inclusive Art Education K-12 Students in the Art Room	3
ARTE 4088	Student Teaching	9
<b>Credit Hours</b>		<b>12</b>
<b>Total Credit Hours</b>		<b>155</b>

1

These 2 courses constitute the waiver for the GenEd Arts category if the courses are completed with a C- or better.

2

These 3 courses constitute the waiver for the GenEd Human Behavior category if the courses are completed with a C- or better.

3

Students need to complete either a 4-credit Art History 2000+ elective **or** a 4-credit second Mathematics course to reach the minimum 155 credits to earn the BFA degree with Art Education Concentration.