The College of Fine Arts offers minors in Architecture, Art, Design, Drama, and Music to students from other colleges at Carnegie Mellon University. These minors allow students at Carnegie Mellon to take courses and develop a direction for electives in any of the five schools in CFA. Students in the College of Fine Arts may also earn minors outside of their major within other schools in the College. They may also study any of the minors offered by the other colleges to the University at large, thus taking advantage of the broad educational opportunities available at Carnegie Mellon University.

Minors Offered by the College of Fine Arts:

- Architectural Design Fabrication (available only to B. Arch candidates)
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- Media Design (IDeATe)
- Music
- Music Education (available only to students in the School of Music)
- Music Technology
- Music Theory
- Musicology
- Photography
- Sonic Arts (IDeATe)
- Sound Design (IDeATe)

Guidelines for students are: 1) except where so designated, CFA students are not eligible to earn a minor in their own school; students from outside CFA may earn a minor in any school in CFA; 2) faculty advisors in the student’s home school (in consultation with the academic officer of the other unit involved) will advise students as to the structuring of the courses in each minor; 3) a minor is not to be considered an overload; rather, through the assistance of faculty advisors it should be integrated into a student’s overall units required for graduation; 4) the advisors will also monitor the student’s development in these minors and keep records in the students’ home school (in consultation with the academic officer of the other unit involved) will advise students as to the structuring of the courses in each minor; 3) a minor is not to be considered an overload; rather, through the assistance of faculty advisors it should be integrated into a student’s overall units required for graduation; 4) the advisors will also monitor the student’s development in these minors and keep records in the minors, as well as in the majors in the student’s own school. Courses listed as possible for the minors may be available, but not all courses are offered every semester. Students should consult with their advisors.

Students interested in earning a minor in any of the CFA schools should contact: Architecture: Heather Workinger; Art: Keni Jefferson; Design: Melissa Cicozi; Drama: Amy Nichols; Music: Sharon Johnston.

Architecture Minors

This sequence is for candidates who intend to develop intellectual links to the architectural profession. The scope of courses offered includes a full spectrum of professional issues in architecture.

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**Elective Courses**  
30-39 units

48-568 Advanced CAD, BIM, and 3D Visualization  
48-576 Mapping Urbanism  
48-724 Scripting and Parametric Design  
48-3xx Architectural Drawing Elective (Pre-Approval of coursework required)  
48-xxx Architectural Representation/Visualization Elective: (Pre-Approval of coursework required)

Minimum Units: 54 (non-architecture majors)  
Minimum Units: 63 (architecture majors)

**Minor in Architectural Technology**

This sequence is for candidates who intend to develop intellectual links to the technical aspects of the profession. It is not available to B. Arch Candidates.

**Prerequisite Courses**  
22 units

33-106 Physics I for Engineering Students  
21-120 Differential and Integral Calculus

**Elective Courses**  
32 units

48-116 Building Physics  
48-215 Materials & Assembly  
48-324 Structures/Statics  
48-315 Environment I: Climate & Energy in Architecture  
48-432 Environment II: Design Integration of Active Building Systems  
48-752 Zero Energy Housing

Minimum Units: 54

**Minor in Building Science**

(Available only to B. Arch Candidates)

The Minor in Building Science is intended for those students that want to deepen their knowledge in the building sciences and for those who are interested in gaining advanced placement (AMP) in the M.S. programs offered by the School in the areas of Building Performance & Diagnostics and Sustainable Design. It is earned by completing the two required building technology and three environmental science courses and then an additional three elective courses in the building sciences.

**Required Course**  
12 units

48-722 Building Performance Modeling

**Elective Courses**  
45 units

48-795 LEED, Green Design and Building Rating in Global Context  
48-721 Building Controls and Diagnostics  
48-723 Performance of Advanced Building Systems  
48-729 Productivity, Health and the Quality of Buildings  
48-749 Special Topics in Computational Design: Experimental Archaeology of CAD  
48-752 Zero Energy Housing

Minimum Units: 54

**Minor in Architectural Design Fabrication**

(Available only to B. Arch Candidates)

The Minor in Architectural Design Fabrication is intended for those who wish to develop focused, disciplinary expertise in both analog and digital material methods for shaping the built environment and become involved in a community of practice dedicated to a rigorous pursuit of making as a mode of architectural research and cultural expression. It is also for students interested in gaining advanced placement in the SoA’s Master of Advanced Architectural Design (MAAD) program.

**Required Courses**  
33 units

48-545 Design Fabrication  
48-555 Introduction to Architectural Robotics  
48-xxx Advanced Synthesis Options Studio with Digital Fabrication Emphasis

**Elective Courses**  
30 units

48-470 The Depth of Surface  
48-473 Hand and Machine Joinery, New Directions  
48-531 Fabricating Customization: Prototype  
48-564 Furniture Design & Construction  
48-xxx Advanced Design Fabrication

Minimum Units: 54
Art Minor

Concept Studio (choose one)  10 units
60-101 Transdisciplinary Research Studio I: Risk, Agency, Failure  10
60-201 Transdisciplinary Research Studio II: Publics  10
60-202 Transdisciplinary Research Studio III: Futures  10

Media Studios (choose two)  20 units
60-110 Electronic Media Studio: Introduction to the Moving Image  10
60-210 Electronic Media Studio: Introduction to Interactivity  10
60-131 3D Media Studio I  5
60-132 3D Media Studio I  5
60-133 3D Media Studio II  5
60-134 3D Media Studio II  5
60-131 - 60-134 count as half a course each.
60-150 2D Media Studio: Drawing  10
60-160 2D Media Studio: Imaging  10
60-250 2D Media Studio: Painting  10
60-251 2D Media Studio: Print Media  10

Advanced Media (choose two)  20 units
60-4xx Advanced ETB: Electives  10
60-4xx Advanced SIS: Electives  10
60-4xx Advanced DP3: Electives  10
60-4xx Advanced CP: Electives  10

Critical Studies (choose one)  9 units
60-1xx Art History Elective  9
60-2xx Art History Elective  9
60-3xx Art History Elective  9

Minimum units: 59

Media Design Minor - IDeATe

The minor in Media Design is offered by the School of Art as part of the Integrative Design, Arts and Technology (IDeATe) network. IDeATe offers students the opportunity to become immersed in a collaborative community of faculty and peers who share expertise, experience, and passions at the intersection of arts and technology. Students will engage in active ‘learning by doing’ in shared labs and maker spaces. The program addresses current and emerging real-world challenges that require disciplinary expertise coupled with multidisciplinary perspectives and collaborative integrative approaches.

The IDeATe undergraduate curriculum consists of eight areas, all of which can also be taken as minors. The themes of these areas integrate knowledge in technology and arts: Game Design, Animation & Special Effects, Media Design, Design for Learning, Sonic Arts, Innovation and Entrepreneurship, Intelligent Environments, and Physical Computing. For more information about the IDeATe network, please see Undergraduate Options (http://coursecatalog.web.cmu.edu/servicesandoptions/undergraduateoptions/#ideate).

The Media Design minor serves students who are interested in digital mediation of experiences. It explores the interconnected development of technology and content in new media systems and the meaning that arises from the resulting forms. Students learn to design mediated experiences across different platforms, from mobile to large-scale installations. They study the structure and function of different components of mediated experiences. They learn how to synthesize those components and how to connect modular structures for the creation of transmedia experiences.

Curriculum

One Computing Course - Minimum of 9 Units  Units
15-112 Fundamentals of Programming and Computer Science  12
60-210 Electronic Media Studio: Introduction to Interactivity  10
60-212 Electronic Media Studio: Interactivity and Computation for Creative Practice  12

One IDeATe Portal Course - Minimum of 9 Units  Units
62-150 IDeATe Portal: Introduction to Media Synthesis and Analysis  10
16-223 IDeATe Portal: Creative Kinetic Systems  10
18-090 Twisted Signals: Multimedia Processing for the Arts  10
60-218 IDeATe Portal: Real-Time Animation  10
60-223 IDeATe Portal: Introduction to Physical Computing  10
99-361 IDeATe Portal  9

IDeATe Media Design Courses - Minimum of 27 Units  Units
05/18-540 Rapid Prototyping of Computer Systems  12
15-294 Special Topic: Rapid Prototyping Technologies  5
15-394 Intermediate Rapid Prototyping  5
16/54-375 IDeATe: Robotics for Creative Practice  10
24-672 Special Topics in DIY Design and Fabrication  12
48/53-558 Reality Computing  12
51-236 Information Design  9
51-400 Transition Design  9
51-421 Design Center: Data Visualization  9
53-312 Guest Experience in Theme Park Design  9
53-376 360 Story and Sound  12
53-642 Themed Entertainment Design Studio  12
54-399 Decoding Media  9
60-110 Electronic Media Studio: Introduction to the Moving Image  10
62-362 IDeATe: Electronic Logics & Creative Practice  10
62-478 IDeATe: digiTOL  6
67-240 Mobile Web Design & Development  9
76-374 Mediated Narrative, English-IDeATe  9
82-285 Podcasting: Language and Culture Through Storytelling  9

Double-Counting
Students may double-count up to two of their Media Design minor courses toward requirements for other majors or minors.

Design Minor

Minoring in Design is a great way for students to diversify their studies and incorporate design skills and thinking into their overall academic experiences. Students who are already School of Design majors are not eligible to earn a Design minor. The 54 required units must be unique to the Design minor. No courses may be double counted.

Requirements and Electives

For a design minor, students must complete 54 units: 36 units of required courses, plus 18 units of design electives.

Required Design Courses

Both of these:  Units
51-262 Design Center: CD Fundamentals: Design for Interactions for Communications (formerly CDF)  9
51-264 Design Center: Product Design Fundamentals: Design for Interactions for Products (formerly IDF)  9

Two of these:  Units
51-171 Placing  10
Music Minors

This sequence is for candidates who are majors from any discipline in the university other than music who have some background in music and would like to know more about music.

Admission Requirements:
1. The student must apply to enter the program in the office of the Director of Student Services (CFA 108).

Prerequisite Course
Beginning Piano for Minors is required of students who do not pass a beginning piano proficiency test.

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Required Music Courses
Basic Harmony I and/or Basic Solfege I are required of students who do not qualify for entrance into Harmony I and/or Solfege I, based on their scores on the theory and solfege placement tests. These classes fulfill the harmony and solfege requirements.

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Elective Courses
Elective courses are to be chosen from those courses listed for the School of Music in the current course catalog. Performance electives are encouraged. (An audition is required for all School of Music performance electives.)

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Minor in Music Technology

This sequence is for candidates who are majors from any discipline in the university who have some background in music and would like to know more about music technology.

Note: Students in the School of Music have slightly different requirements for the Minor in Music Technology. See School of Music (http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofmusic/#minorinnusictecnologyforstudentinschoolofmusic).

Admission Requirements
The student must apply to enter the program in the office of the Director of Student Services (CFA 108).

Prerequisite Course
Beginning Piano for Minors is required of students who do not pass a beginning piano proficiency test.

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Minors Offered by the College of Fine Arts

Sound Recording Courses  21 units
57-337  Sound Recording  6
57-338  Sound Editing and Mastering  6
57-438  Multitrack Recording  9

Music Technology/Sound Courses (choose 3)  21 units
Choose three courses. One of the three courses must be either Introduction to Computer Music or Electronic and Computer Music. (Note that 15-112 is a prerequisite for 15-322; 57-101 or 57-171 is a prerequisite for 57-347.) Other courses may be taken with the permission of the music technology minor advisor.

15-104  Introduction to Computing for Creative Practice  10
15-322  Introduction to Computer Music  9
15-323  Computer Music Systems and Information Processing  9
18-090  Twisted Signals: Multimedia Processing for the Arts  10
33-114  Physics of Musical Sound  9
54-166  Introduction to Sound Design for Theatre  6
54-275  History of Sound Design  3
54-505  Ear Training  1
54-666  Production Audio  6
57-344  Experimental Sound Synthesis  9
57-347  Electronic and Computer Music  6
57-478  Survey of Historical Recording  6
60-352  NOISE: Toward a Critical Theory of Sound and Hearing  9

Minimum units required: 67

Minor in Music Theory
This sequence is for candidates who are majors from any discipline in the university who have some background in music and would like to know more about music theory.

Note: Students in the School of Music have slightly different requirements for the Minor in Music Theory. See School of Music (http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofmusic/#minorinnmusictechnologyforstundentsinschoolofmusic).

Admission Requirements
The student must apply to enter the program in the office of the Director of Student Services (CFA 108).

Prerequisite Course  0–3 units
Beginning Piano for Minors is required of students who do not pass a beginning piano proficiency test.

57-294  Beginning Piano Test  0
57-329  Beginning Piano for Minors  3

Required Music Courses  25 units
Basic Harmony I and/or Basic Solfege I are required of students who do not qualify for entrance into Harmony I and/or Solfege I, based on their scores on the theory and solfege placement tests. These classes fulfill the harmony and solfege requirements.

57-152  Harmony I  9
57-161  Eurhythmics I  3
57-173  Survey of Western Music History  9
57-181  Solfege I  3
57-188  Repertoire and Listening for Musicians  1

Required Theory Courses  21 units
57-151  Counterpoint in Theory and Application  6
57-153  Harmony II  9
57-408  Form and Analysis  6

Upper Level Theory Course (choose one)  6 units
See theory courses on the Music Support Courses Two-Year Rotation list. It is available on the Inside Music website: http://music.cfa.cmu.edu/. A graduate course may be taken with the permission of the instructor.

Elective Courses  18 units
Elective courses are to be chosen from those courses listed for the School of Music in the current course catalog.

Minimum units required: 70

Minor in Musicology
This sequence is for candidates who are majors from any discipline in the university who have some background in music and would like to know more about music history.

**Admission Requirements**

The student must apply to enter the program in the office of the Director of Student Services (CFA 108).

**Prerequisite Course**  
0-3 units  
Beginning Piano for Minors is required of students who do not pass a beginning piano proficiency test.

57-294 Beginning Piano Test  
57-329 Beginning Piano for Minors

**Required Music Courses**  
15 units  
Basic Harmony I and/or Basic Solfege I are required of students who do not qualify for entrance into Harmony I and/or Solfege I, based on their scores on the theory and solfege placement tests. These classes fulfill the harmony and solfege requirements.

57-152 Harmony I  
57-161 Eurhythmics I  
57-181 Solfege I

**Required Musicology Courses**  
36 units  
Course grades of C- or below in the courses listed below will not count toward Musicology requirements.

57-283 Music History I  
57-284 Music History II  
57-285 Music History III  
57-190 Repertoire and Listening for Musicians I  
57-289 Repertoire and Listening for Musicians II  
57-290 Repertoire and Listening for Musicians III

**Upper Level Musicology Course (choose one)**  
6 units  
See musicology courses on the Music Support Courses Two-Year Rotation list. It is available on the Inside Music website: http://music.cfa.cmu.edu/. A graduate course may be taken with the permission of the instructor.

**Elective Courses**  
18 units  
Elective courses are to be chosen from those courses listed for the School of Music in the current course catalog.

**Minimum units required:** 75

**Sonic Arts Minor - IDeATe**

The minor in Sonic Arts is offered by the School of Music as part of the Integrative Design, Arts and Technology (IDeATe) network. IDeATe offers students the opportunity to become immersed in a collaborative community of faculty and peers who share expertise, experience, and passions at the intersection of arts and technology. Students will engage in active ‘learning by doing’ in shared labs and maker spaces. The program addresses current and emerging real-world challenges that require disciplinary expertise coupled with multidisciplinary perspectives and collaborative integrative approaches.

The IDeATe undergraduate curriculum consists of eight areas, all of which can also be taken as minors. The themes of these areas integrate knowledge in technology and arts: Game Design, Animation & Special Effects, Media Design, Design for Learning, Sonic Arts, Innovation and Computation, Computer Music Systems and Information Processing, Intelligent Environments, and Physical Computing. For more information about the IDeATe network, please see Undergraduate Options (http://coursescatalog.web.cmu.edu/servicesandoptions/undergraduateoptions/#ideate).

In the Sonic Arts minor, students create experimental music or explore new, technology-enabled applications and markets for sound design, music creation, and performance.

**Curriculum**

One Computing Course - Minimum of 9 Units

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<td>Principles of Computing</td>
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<td>15-112</td>
<td>Fundamentals of Programming and Computer Science</td>
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<tr>
<td>60-210</td>
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One IDeATe Portal Course - Minimum of 9 Units

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<td>16-223</td>
<td>IDeATe Portal: Creative Kinetic Systems</td>
<td>10</td>
</tr>
<tr>
<td>60-223</td>
<td>IDeATe Portal: Introduction to Physical Computing</td>
<td>10</td>
</tr>
<tr>
<td>62-150</td>
<td>IDeATe Portal: Introduction to Media Synthesis and Analysis</td>
<td>10</td>
</tr>
<tr>
<td>99-361</td>
<td>IDeATe Portal</td>
<td>9</td>
</tr>
</tbody>
</table>

IDeATe Sonic Arts Courses - Minimum of 27 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-322</td>
<td>Introduction to Computer Music</td>
<td>9</td>
</tr>
<tr>
<td>15-323</td>
<td>Computer Music Systems and Information Processing</td>
<td>9</td>
</tr>
<tr>
<td>18-493</td>
<td>Electroacoustics</td>
<td>12</td>
</tr>
<tr>
<td>33-114</td>
<td>Physics of Musical Sound</td>
<td>9</td>
</tr>
<tr>
<td>53-376</td>
<td>360 Story and Sound</td>
<td>12</td>
</tr>
<tr>
<td>54-166</td>
<td>Introduction to Sound Design for Theatre</td>
<td>6</td>
</tr>
<tr>
<td>54-267</td>
<td>Conceptual Sound Design</td>
<td>9</td>
</tr>
<tr>
<td>54-509</td>
<td>Theatrical Sound System Design 2</td>
<td>9</td>
</tr>
<tr>
<td>57-337</td>
<td>Sound Recording</td>
<td>6</td>
</tr>
<tr>
<td>57-344</td>
<td>Experimental Sound Synthesis</td>
<td>9</td>
</tr>
<tr>
<td>57-347</td>
<td>Electronic and Computer Music</td>
<td>6</td>
</tr>
<tr>
<td>57-421</td>
<td>Exploded Ensemble</td>
<td>6</td>
</tr>
<tr>
<td>57-425</td>
<td>Expanded Music Performance</td>
<td>9</td>
</tr>
</tbody>
</table>

Double-Counting

Students may double-count up to two of their Sonic Arts minor courses toward requirements for other majors or minors.

**CFA Dean's Office Minors**

**Minor in the History of Arts**

This minor of six or more courses as designated below, offers students flexibility to engage in a broad survey in the arts or can be tailored to reflect a more specific area of interest. For College of Fine Arts students, all courses meeting the requirements of the Minor in the History of the Arts must be taken outside of their major School, with the exception of the School of Architecture. Interested students should contact Patti Pavlus in the College of Fine Arts, Room 100.

**Introductory Level Courses**  
(choose at least three, CFA students pick 3 outside of major)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>48-240</td>
<td>Historical Survey of World Architecture and Urbanism I</td>
<td>9</td>
</tr>
<tr>
<td>48-241</td>
<td>Modern Architecture</td>
<td>9</td>
</tr>
<tr>
<td>54-239</td>
<td>History of Architecture and Decor 1: Ancients to Gothic</td>
<td>Var.</td>
</tr>
<tr>
<td>54-245</td>
<td>History of Clothing 1 (instructor permission only)</td>
<td>Var.</td>
</tr>
<tr>
<td>54-246</td>
<td>History of Clothing 2 (instructor permission only)</td>
<td>Var.</td>
</tr>
<tr>
<td>57-173</td>
<td>Survey of Western Music History (coreq: 57-188)</td>
<td>9</td>
</tr>
<tr>
<td>57-188</td>
<td>Repertoire and Listening for Musicians (coreq of 57-173)</td>
<td>1</td>
</tr>
<tr>
<td>60-105</td>
<td>Critical Theory in Art 1 (instructor permission only)</td>
<td>9</td>
</tr>
</tbody>
</table>
**Minors Offered by the College of Fine Arts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>60-106</td>
<td>Critical Theory in Art II (instructor permission only; prereq: 60-105)</td>
<td>9</td>
</tr>
<tr>
<td>60-205</td>
<td>Critical Theory in Art III (instructor permission only)</td>
<td>9</td>
</tr>
<tr>
<td>60-206</td>
<td>Critical Theory in Art IV (instructor permission only; prereq: 60-205)</td>
<td>9</td>
</tr>
</tbody>
</table>

**Intermediate/Advanced Level Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>48-348</td>
<td>Architectural History of Mexico &amp; Guatemala</td>
<td>9</td>
</tr>
<tr>
<td>48-374</td>
<td>History of Architecture in the Islamic World- A Primer (prereq: 48-240)</td>
<td>9</td>
</tr>
<tr>
<td>48-440</td>
<td>American Regions &amp; Regionalism: An Architectural History of Place, Time, and Cul (prereq: 48-240)</td>
<td>9</td>
</tr>
<tr>
<td>51-376</td>
<td>Semantics &amp; Aesthetics</td>
<td>4.5</td>
</tr>
<tr>
<td>57-209</td>
<td>The Beatles</td>
<td>9</td>
</tr>
<tr>
<td>57-476</td>
<td>How Music Works: An Affective History</td>
<td>6</td>
</tr>
<tr>
<td>57-477</td>
<td>Music of the Spirit</td>
<td>6</td>
</tr>
<tr>
<td>57-478</td>
<td>Survey of Historical Recording</td>
<td>6</td>
</tr>
<tr>
<td>57-480</td>
<td>History of Black American Music</td>
<td>6</td>
</tr>
<tr>
<td>57-485</td>
<td>History of the Symphony</td>
<td>9</td>
</tr>
<tr>
<td>48-352 to 48-398</td>
<td>Art Critical Studies Electives (instructor permission only)</td>
<td>9</td>
</tr>
<tr>
<td>62/60-352 to 60-398</td>
<td>Photographers and Photography Since World War II</td>
<td>9</td>
</tr>
<tr>
<td>62-371/79-316</td>
<td>Photography, The First 100 Years, 1839-1939</td>
<td>9</td>
</tr>
<tr>
<td>79-395</td>
<td>The Arts in Pittsburgh</td>
<td>9</td>
</tr>
<tr>
<td>79-396</td>
<td>Music and Society in 19th and 20th Century Europe and the U.S.</td>
<td>9</td>
</tr>
</tbody>
</table>

Minimum units required for minor: **54**

*Other courses not on this list may qualify as approved by CFA Dean's Office (College of Fine Arts, Room 100).

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**Minor in Photography**

The Photography Minor exposes students to the breadth of offerings from traditional photography (i.e. film exposure and silver printing) to digital shooting and output. The student will become familiar with photography's craft, its history and significant practitioners, and develop their own distinct engagement with the medium.

Students may apply for the Photography Minor after they have taken a beginning photography course. Students will be admitted to the minor based on their aptitude, appropriate level of photography skills, and space availability within the program. Once admitted, students will be assigned a faculty advisor who will help them determine a sequence of courses that best fits their needs and interests.

**Application Requirements**

The application process for the Photography Minor requires submission of: a completed application form signed by the home department advisor, a personal statement, and a portfolio of photographs. Contact the CFA Photography Administrator, Jamie Gruzska, MM B18, for further information and an application form.

**Photography Required Courses (3) minimum 27 units**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>62/60-141</td>
<td>Black and White Photography I *</td>
<td>10</td>
</tr>
<tr>
<td>62/60-142</td>
<td>Digital Photography I</td>
<td>10</td>
</tr>
<tr>
<td>62/60-241</td>
<td>Black and White Photography II</td>
<td>10</td>
</tr>
</tbody>
</table>

**Photography Elective (1) minimum 9 units**

Choose one (1) or more additional photography courses from the list below in consultation with the photo advisor; consult Jamie Gruzska for current offerings.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>62-208</td>
<td>Alternative Photography: Contemporary Antiquarian Printmaking</td>
<td>5</td>
</tr>
<tr>
<td>62-214</td>
<td>Photography and the Narrative of Place</td>
<td>5</td>
</tr>
<tr>
<td>62-235</td>
<td>Photographing America</td>
<td>10</td>
</tr>
<tr>
<td>62-245</td>
<td>Portrait Photography</td>
<td>10</td>
</tr>
</tbody>
</table>
Photo History Required Course (1)  minimum 9 units
62-371  Photography, The First 100 Years, 1839-1939  *  9
or 62-360  Photographers and Photography Since World War II

History, Theory, or Criticism of the Visual Arts
Elective (1)  minimum 9 units
Choose one (1) additional History, Theory or Criticism of the Arts course in consultation with the photo advisor. A second Photo History course (62-360 or 62-371) can be used for this requirement.

*or course approved by the photography advisor

Minimum units required for minor: 54