

# Architecture | Associate in Applied Science

## Field of Study Code: ARCH.AAS.CADD

### Catalog Description:

The **Architectural Technology – CADD degree** includes the core group of architecture courses as well as courses designed to prepare students for immediate entry into the workplace as a drafter.

<b>Program Requirements</b> .....	<b>52</b>
Arch 1100 Introduction to Architecture .....	3
Arch 1101 Basic Architectural Drafting .....	3
Arch 1111 Building Materials .....	4
Arch 1121 Architectural Design Communication .....	4
Arch 1131 Introduction to Architectural Design .....	4
Arch 1211 Basic Computer-Aided Drafting — AutoCAD .....	3
Arch 1411 Introduction to BIM-Revit .....	3
Arch 2102 Detailing and Construction Documents .....	4
Arch 2210 Mechanical, Electrical and Plumbing Systems .....	3
Arch 2220 Architectural Computer Modeling .....	2
Arch 2230 Structural Systems.....	3
Arch 2240 Codes, Specifications and Contracts .....	3
Engli 1101 English Composition 1 .....	3
Math 1431 Precalculus I .....	5
Physi 1201 General Physics I .....	5

### Program Electives .....6

Select six credits from the following courses. (In addition to the courses above.)

Arch 1412 Advanced BIM-Revit.....	3
Arch 2260 Construction Estimating .....	3
Arch 2270 Construction Scheduling .....	3
Arch 2413 BIM Management-Revit .....	3
Arch 2840 Experimental/Pilot Class .....	1 to 6

\* - course has a prerequisite

### General Education .....9

Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. For the **Architectural Technology-CADD degree**, some General Education courses are already listed under program requirements. Therefore, students need 9 credits besides those listed under program requirements.

The following summarizes the minimum credits required in each of the specified General Education areas:

### Suggested Course Sequence (Full-Time Enrollment)

*Please note: A student's readiness to perform college-level coursework is based on the student's placement test and/or ACT scores. Below 1000 level coursework may be required prior to the student taking courses in the suggested sequences.*

#### First Semester (16 credits)

- Arch 1100 (3)
- Arch 1101 (3)
- Arch 1121 (4)
- Arch 1211 (3)
- Engli 1101 (3)
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#### Second Semester (16 credits)

- Arch 1131 (4)
- Arch 1111 (4)
- Arch 1411 (3)
- Arch 2220 (2)
- General Education (3)

#### Third Semester (18 credits)

- Arch 2102 (4)
- Arch 2230 (3)
- Arch 2210 (3)
- Math 1431 (5)
- General Education (3)

#### Fourth Semester (17 credits)

- Elective (3)
- Elective (3)
- Arch 2240 (3)
- Physi 1201 (5)
- General Education (3)

#### **For more information:**

If you are considering this program as an area of study, please contact the Fine & Applied Arts Division office at 630-942-2048.

#### **Program web site:**

<http://www.cod.edu/programs/architecture/>

**Communication:** 6 credits

Written: (3 credits) English 1101 or 1105

*(English 1101 in program requirements fulfills this requirement)*

Oral: (3 credits) Speech 1100, 1120 or 1150

**Physical and Life Sciences:** 3 to 5 credits

At least one course with a laboratory component.

*(Physics 1201 in program requirements fulfills this requirement)*

**Mathematics:** 3 to 5 credits

Select a minimum of 3 credits (1000 level or above).

Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.

*(Mathematics 1431 in program requirements fulfills this requirement)*

**Humanities and Fine Arts:** 3 credits

**Social and Behavioral Sciences:** 3 credits

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category.

*(Architecture 1100 in program requirements fulfills this requirement)*

<b>TOTAL CREDITS FOR AAS DEGREE</b>
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<b>67</b>
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## Career Information ARCH.AAS.CADD

### Job Title(s): Architectural Drafters

Intern Architect, Drafter, Architect, Draftsman, Architectural Designer, Architectural Drafter, Architectural Intern, Project Manager, Architectural Draftsman, CAD Technician (Computer-Aided Design Technician)

For salary and wage information, please visit: [www.onetonline.org](http://www.onetonline.org)

If you would like information regarding internships, resume development, interviewing and job search skills, please contact the Career Services Center

Phone: 630-942-2230

[www.cod.edu/careerservices](http://www.cod.edu/careerservices)

Twitter: @codcareercenter

### Related Occupations:

Electrical Drafters

Civil Drafters

Mechanical Drafters

Interior Designers

Mapping Technicians

Civil Engineering Technicians

Marine Architects

Commercial and Industrial Designers

Geographic Information Systems Technicians

Cartographers and Photogrammetrists

# Architecture | Associate in Applied Science

## Field of Study Code: ARCH.AAS.CONST

### Catalog Description:

The **Construction Management degree** combines a variety of architecture and business classes to prepare students for entry-level positions in construction management and construction firms or for transfer to other institutions.

### Program Requirements..... 50-52

Arch 1111	Building Materials .....	4
Arch 1130	Blueprint Reading.....	2
Arch 1141	Construction Methods I .....	2
Arch 1301	Introduction to Construction Management...	3
Arch 2142	Construction Methods II .....	2
Arch 2150	Basic Surveying.....	2
Arch 2240	Codes, Specifications and Contracts .....	3
Arch 2260	Construction Estimating.....	3
Arch 2270	Construction Scheduling .....	3
Arch 2413	BIM Management-Revit .....	3
Accou 2140	Financial Accounting .....	4
Engli 1101	English Composition 1 .....	3
Manag 1100	Supervision.....	3
Manuf 2280	Industrial Safety .....	2
Math 1115	Technical Mathematics I .....	3
<b>OR</b>		
Math 1431	Precalculus I: .....	5
Philo 1114	Business Ethics .....	3
Physi 1201	Physics .....	5

### Program Electives ..... 8

Students are required to take 6-8 credits based on their math class. The degree totals 64 credits. Students may take only one class from English 1102, English 1105 and Math 1635.

Arch 1100	Introduction to Architecture .....	3
Arch 1101	Basic Architectural Drafting .....	3
Arch 1211	Basic Computer-Aided Drafting — AutoCAD.....	3
Arch 1411	Introduction to BIM-Revit .....	3
Arch 1412	Advanced BIM-Revit.....	3
Arch 2102	Detailing and Construction Documents .....	4
Arch 2210	Mechanical, Electrical and Plumbing Systems.....	3
Arch 2230	Structural Systems.....	3
Engli 1102	English Composition 2 .....	3
Engli 1105	Workplace Writing .....	3

\* - course has a prerequisite

### Suggested Course Sequence (Full-Time Enrollment)

*Please note: A student's readiness to perform college-level coursework is based on the student's placement test and/or ACT scores. Below 1000 level coursework may be required prior to the student taking courses in the suggested sequences.*

#### First Semester (15 credits) Fall

- Arch 1130 (2)
- Arch 1141 (2)
- Arch 1301 (3)
- Engli 1101 (3)
- Manuf 2280 (2)
- Communication: Oral (3)

#### Second Semester (14-16 credits) Spring

- Arch 1111 (4)
- Arch 2142 (2)
- Math 1115 (3) **or** 1431 (5)
- Social and Behavioral Sciences (3)
- Program Elective (2)

#### Summer Semester (6 credits)

- Philo 1114 (3)
- Program Elective (3)

#### Third Semester (15 credits)

- Arch 2150 (2)
- Arch 2270 (3)
- Manag 1100 (3)
- Accou 2140 (4)
- Program Elective (3)

#### Fourth Semester (4 credits)

- Arch 2240 (3)
- Arch 2260 (3)
- Arch 2413 (3)
- Physi 1201 (5)

\*Most architecture courses are offered only once a year.

#### For more information:

If you are considering this program as an area of study, please contact the Fine & Applied Arts Division office at 630-942-2048.

ARCH.AAS.CONST

General Education ..... 6

Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. For the **Construction Management degree**, some General Education courses are already listed under program requirements. Therefore, students only need 6 credits besides those listed under program requirements.

The following summarizes the minimum credits required in each of the specified General Education areas:

**Communication:** 6 credits

Written: (3 credits) English 1101 or 1105

***(English 1101 in program requirements fulfills this requirement)***

Oral: (3 credits) Speech 1100, 1120 or 1150

**Physical and Life Sciences:** 3 to 5 credits

At least one course with a laboratory component.

***(Physics 1201 in program requirements fulfills this requirement)***

**Mathematics:** 3 to 5 credits

Select a minimum of 3 credits (1000 level or above).

Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.

***(Mathematics 1115 or 1431 or 1533 in program requirements fulfills this requirement)***

**Humanities and Fine Arts:** 3 credits

***(Philosophy 1114 in program requirements fulfills this requirement)***

**Social and Behavioral Sciences:** 3 credits

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category.

***(Accounting 2140 in program requirements fulfills this requirement)***

**TOTAL CREDITS FOR AAS DEGREE**

**64-66**

<http://www.cod.edu/programs/architecture/>

Program web site:

ARCH.AAS.CONST

## Career Information ARCH.AAS.CONST

### **Job Title(s):** Construction Managers

Concrete Foreman, Construction Area Manager, Construction Foreman, Construction Manager, Construction Superintendent, General Contractor, Job Superintendent, Project Executive, Project Manager, Project Superintendent

For salary and wage information, please visit: [www.onetonline.org](http://www.onetonline.org)

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Twitter: @codcareercenter

### **Related Occupations:**

General and Operations Managers

Architectural and Engineering Managers

Energy Engineers

Fire-Prevention and Protection Engineers

Occupational Health and Safety Specialists

Logistics Managers

Civil Engineers

Environmental Engineers

Transportation Engineers

# Architecture | Associate in Applied Science

Field of Study Code: ARCH.AAS.PRE

## Catalog Description:

The **Pre-Architecture Technology degree** includes the core group of architecture courses as well as courses designed to prepare students for transfer to baccalaureate or professional programs. The second year curriculum emphasizes portfolio production while the electives allow students to customize their curriculum to match the transfer institution.

## Program Requirements.....52

Arch 1100	Introduction to Architecture .....	3
Arch 1111	Building Materials .....	4
Arch 1121	Architectural Design Communication .....	4
Arch 1131	Introduction to Architectural Design .....	4
Arch 1211	Basic Computer-Aided Drafting — AutoCAD .....	3
Arch 2201	Architectural Design I .....	5
Arch 2202	Architectural Design II .....	5
Arch 2203	Introduction to Architectural Theory .....	3
Arch 2220	Architectural Comp. Modeling .....	2
Arch 2250	Architectural Presentation and Portfolio .....	3
Engli 1101	English Composition 1 .....	3
Math 1431	Precalculus I .....	5
Spec 1100	Fundamentals of Speech Communication .....	3
<b>OR</b>		
Spec 1120	Small-Group Communication .....	3
<b>OR</b>		
Spec 1150	Introduction to Business Communication .....	3
Physi 1201	General Physics I .....	5

## Program Electives .....9

Nine hours in any 1000- or 2000- level courses.

\* - course has a prerequisite

## General Education .....6

Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. For the **Pre-Architecture degree**, some General Education courses are already listed under program requirements. Therefore, students need a minimum of 9 credits besides those listed under program requirements.

The following summarizes the minimum credits required in each of the specified General Education areas:

### Communication: 6 credits

Written: (3 credits) English 1101 or 1105

**(English 1101 in program requirements fulfills this requirement)**

Oral: (3 credits) Speech 1100, 1120 or 1150

**(Speech 1100 or 1120 or 1150 in program requirements fulfills this requirement)**

## Suggested Course Sequence

### (Full-Time Enrollment)

**Please note: A student's readiness to perform college-level coursework is based on the student's placement test and/or ACT scores. Below 1000 level coursework may be required prior to the student taking courses in the suggested sequences.**

### First Semester (17 credits)

- Arch 1100 (3)
- Arch 1121 (4)
- Engli 1101 (3)
- Math 1431 (5)
- Elective (2)

### Second Semester (14 credits)

- Arch 1131 (4)
- Arch 1111 (4)
- Arch 1211 (3)
- Elective (3)

### Summer Semester (5 credits)

- Arch 2220 (2)
- Humanities and Fine Arts (3)

### Third Semester (16 credits)

- Arch 2201 (5)
- Arch 2250 (3)
- Physi 1201 (5)
- Elective (3)

### Fourth Semester (15 credits)

- Arch 2202 (5)
- Arch 2203 (3)
- Spec 1100, 1120 or 1150 (3)
- Social and Behavioral Sciences (3)
- Elective (1)

### For more information:

If you are considering this program as an area of study, please contact the Fine & Applied Arts Division office at 630-942-2048.

### Program web site:

<http://www.cod.edu/programs/architecture/>

**Physical and Life Sciences:** 3 to 5 credits

At least one course with a laboratory component.

*(Physics 1201 in program requirements fulfills this requirement)*

**Mathematics:** 3 to 5 credits

Select a minimum of 3 credits (1000 level or above).

Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.

*(Mathematics 1431 in program requirements fulfills this requirement)*

**Humanities and Fine Arts:** 3 credits

**Social and Behavioral Sciences:** 3 credits

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category.

*(Architecture 1100 in program requirements fulfills this requirement)*

<b>TOTAL CREDITS FOR AAS DEGREE</b>
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<b>67</b>
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## Career Information ARCH.AAS.PRE

**Job Title(s):** Architects, Except Landscape and Naval

Architect, Project Architect, Project Manager, Architectural Project Manager, Principal, Design Architect

For salary and wage information, please visit: [www.onetonline.org](http://www.onetonline.org)

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Twitter: @codcareercenter

### **Related Occupations:**

Logistics Managers

Construction Managers

Civil Engineers

Architectural and Engineering Managers

Interior Designers

Urban and Regional Planners

Purchasing Agents, Except Wholesale, Retail,  
and Farm Products