

ARCHITECTURAL & ENGINEERING DESIGN

ACADEMIC MAP



Associate in Applied Science

Curriculum Requirements: 61 Credits START HERE						
SEMESTER 1 - FALL	Credits	Milestone	Completed			
ARC 106 Introduction to Architecture	3	⊗-	1			
CAD 102 Introduction to AutoCAD	3	\bigotimes				
CAD 115 Mechanical Drafting Standards and Procedures	3	\bigotimes				
ENG 101 College Composition	3					
MAT 126 Trigonometry	3					
Total Credits	15					

SEMESTER 2 - SPRING Credits Milestone Completed ARC 107 Introduction to Sustainable Design 3 3 ARC 202 Revit: Building Information Modeling 3 CAD 210 AutoCAD II 3 PHY 151 General Physics 4 General Education Core I 3 **Total Credits** 16

SEMESTER 3 - FALL)	Credits	Milestone	Completed
ARC 204 Energy Systems		3	\bigotimes	
CAD 107 SolidWorks I		3	\bigotimes	
General Education Core II		3		
General Education Core III		3		
Program Elective		3		
1	Total Credits	15		

SEMESTER 4 - SPRING	4	Credits	Milestone	Completed	
ARC 207 Construction Documents		3			
CAD 251 3D Presentation		3	\bigotimes		
General Education Core I-IV		3			
Program Elective		3			
Open Elective		3			
	Total Credits	15			
YOU'VE FINISHED!					



General Advising Notes

- English and Math courses should be taken in your first term, if possible, or first year.
- Core I courses have the following prefixes: ENG, SPE.
- Core II courses have the following prefixes: ART, COM, ENG, HIS.
- Core III courses have the following prefixes: ECO, POS, PSY, SOC.
- Core IV courses have the following prefixes: BIO, CHM, MAT, PHY, SCI.
- Program Electives Any ARC, CAD, or PMT.

If you plan to continue your education work closely with your faculty advisor and Success Coach to make sure your courses transfer smoothly.

A certificate in Mechanical Drafting & Design is embedded in this degree program. This credential will be awarded upon successful completion of the certificate's required coursework.

To learn more, call us at 207-216-4409 or visit www.yccc.edu * 112 College Drive, Wells, Maine, 04090

Program Description

The Architectural and Engineering Design Degree curriculum provides a broad-based education for employment in a variety of design disciplines. Students learn Computer Aided Design (CAD) and 3D printing, engineering standards and design concepts, fabrication and construction processes, structural mechanics and material properties, and measurements and mathematics as they relate to the design process. Courses are designed to develop problem solving, critical thinking, communication and technical skills. The program prepares students for advanced CAD applications emerging in the fields of architecture, engineering, graphics, and design.

Program Learning Outcomes

Students who successfully complete the Associates in Applied Science degree in Architectural and Engineering Design will be able to:

- Interpret and illustrate abstract concepts in the pre-development stages of the design process.
- Create and manipulate architectural models and plans using CAD software.
- Describe and explain the relationship between spatial design, culture and technology.
- Create and present technical drawings that comply with industry standards and building codes.
- Translate vision and ideas through the use of quantitative data and visual aids such as drawings and 2D and 3D models.
- Investigate contemporary societal and environmental issues involved in the design process in an ethical manner.
- Recognize the value of diversity in opinions, values, abilities and cultures in the business environment.
- Operate both independently and as a team member in collaborative projects.

Career Opportunities

The Architectural and Engineering Design degree prepares students for positions as a CAD designer or drafter in a variety of design professions with architectural, engineering, and manufacturing firms. The program utilizes the latest Autodesk and SolidWorks CAD software, allowing students to graduate with leading edge skills. Graduates develop skills that can be applied in building and construction, manufacturing and fabrication, woodworking, and mechanical design industries.

Articulation agreements exist between York County Community College and various colleges and universities. Please work with your advisor for information regarding these agreements.

DISCLAIMER

While every effort has been made to ensure accuracy, the college reserves the right to make edits due to errors or omissions or changes at any time with respect to course offerings, degree and program requirements addressed in this publication. The information provided is solely for the convenience of the reader, and the college disclaims any liability, which may otherwise be incurred.

