

# TECHNICAL & VOCATIONAL PROGRAMS

## Architectural Technology

### A 40 10 0 Associate in Applied Science

The Architectural Technology curriculum provides individuals with knowledge and skills that can lead to employment in the field of architecture or one of the associated professions. Students receive instruction in construction document preparation, materials and methods, environmental and structural systems, building codes and specifications, and computer applications as well as complete a design project. Optional courses may be provided to suit specific career needs. Upon completion, graduates have career opportunities within the architectural, engineering, and construction professions as well as positions in industry and government.

#### General Education Courses

| <i>Communications</i>               | <i>[prerequisite]</i> | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|-------------------------------------|-----------------------|------------|--------------|------------|----------------|
| ENG 111 Expository Writing          | [ENG 090/RED 090]     | F1         | 3            | 0          | 3              |
| ENG 112 Argument Based Research     | [ENG 111]             | S1         | 3            | 0          | 3              |
| COM 120 Interpersonal Communication | [ENG 090/ RED 090]    | S2         | 3            | 0          | 3              |

| <i>Natural Science/Mathematics</i> | <i>[prerequisite]</i> | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|------------------------------------|-----------------------|------------|--------------|------------|----------------|
| MAT 161 College Algebra            | [MAT 080 or MAT 090]  | F1         | 3            | 0          | 3              |

| <i>Social/Behavioral Science:</i>   | <i>[prerequisite]</i> | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|---|-----------------------|------------|--------------|------------|----------------|
| (Choose 3 semester credit hours of approved courses from the CAA Course List) | [Varies]              | S2         | 3            | 0          | 3              |

| <i>Humanities/Fine Arts:</i>   | <i>[prerequisite]</i> | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|--|-----------------------|------------|--------------|------------|----------------|
| (Choose 3 semester credit hours of approved courses from the CAA Course List. Humanities elective cannot be elementary foreign language course or COM course.) | [Varies]              | F2         | 3            | 0          | 3              |

#### Major Courses: Core

| <i>Core courses</i>                              | <i>[prerequisite]</i>     | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|--|---------------------------|------------|--------------|------------|----------------|
| ARC 111 Introduction to Architectural Technology |                           | F1         | 1            | 6          | 3              |
| ARC 112 Construction Materials and Methods       |                           | F1         | 3            | 2          | 4              |
| ARC 114 Architectural CAD                        |                           | S1         | 1            | 3          | 2              |
| ARC 213 Design Project                           | [ARC 111/ARC 112/ARC 114] | F2         | 2            | 6          | 4              |
| ARC 230 Environmental Systems                    | [ARC 111/ARC 161]         | F2         | 3            | 3          | 4              |

#### Other Required Hours

| <i>Courses</i>                               | <i>[prerequisite]</i>        | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|--|------------------------------|------------|--------------|------------|----------------|
| ARC 113 Residential Architectural Technology | [ARC 111]                    | S1         | 1            | 6          | 3              |
| ARC 212 Commercial Construction Technology   | [ARC 111]                    | F2         | 1            | 6          | 3              |
| ARC 250 Survey of Architecture               |                              | S1         | 3            | 0          | 3              |
| ARC 240 Site Planning                        | [ARC 111]                    | S1         | 2            | 2          | 3              |
| ARC 131 Building Codes                       | [ARC 112]                    | F2         | 2            | 2          | 3              |
| ARC 220 Advanced Architectural CAD           | [ARC 114]                    | F2         | 1            | 3          | 2              |
| ARC 231 Architectural Presentations          | [ARC 111]                    | S2         | 2            | 4          | 4              |
| ARC 132 Specifications and Contracts         |                              | S2         | 2            | 0          | 2              |
| CIS 110 Introduction to Computers            | [ENG 090/RED 090/MAT 070]    | F1         | 2            | 2          | 3              |
| PHY 151 College Physics I                    | [MAT 161/MAT 171 or MAT 175] | S1         | 3            | 2          | 4              |
| or   |                              |            |              |            |                |
| MAT 162 College Trigonometry                 | [MAT 161]                    | S1         | 3            | 0          | 3              |
| COE 111 Co-op Work Experience I              | [2.0 GPA/9 CrHrs in Major]   | S2         | 0            | 10         | 1              |
| COE 110 World of Work                        |                              | F1         | 1            | 0          | 1              |

**Total Semester Hours Required for Associate Degree:**

**66-67**

# Architectural Technology

## D 40 10 0 Diploma

### General Education Courses

| <i>Communications</i>      | <i>[prerequisite]</i> | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|----------------------------|-----------------------|------------|--------------|------------|----------------|
| ENG 111 Expository Writing | [ENG 090/RED 090]     | F1         | 3            | 0          | 3              |

| <i>Natural Science/Mathematics</i> | <i>[prerequisite]</i> | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|------------------------------------|-----------------------|------------|--------------|------------|----------------|
| MAT 161 College Algebra            | [MAT 080 or MAT 090]  | F1         | 3            | 0          | 3              |

### Major Courses: Core

| <i>Core courses</i>                        | <i>[prerequisite]</i>     | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|--|---------------------------|------------|--------------|------------|----------------|
| ARC 111 Intro to Architecture              |                           | F1         | 1            | 6          | 3              |
| ARC 112 Construction materials and Methods |                           | F1         | 3            | 2          | 4              |
| ARC 114 Architectural CAD                  |                           | S1         | 1            | 3          | 2              |
| ARC 213 Design Project                     | [ARC 111/ARC 112/ARC 114] | S2         | 2            | 6          | 4              |
| ARC 230 Environmental Systems              | [ARC 111/MAT 161]         | F2         | 3            | 3          | 4              |

### Other Required Hours

| <i>Courses</i>                    | <i>[prerequisite]</i>      | <i>Seq</i> | <i>Class</i> | <i>Lab</i> | <i>Credits</i> |
|-----------------------------------|----------------------------|------------|--------------|------------|----------------|
| ARC 113 Residential Archit. Tech  | [ARC 111]                  | S1         | 1            | 6          | 3              |
| ARC 131 Building Codes            | [ARC 112]                  | S2         | 2            | 2          | 3              |
| ARC 220 Adv. Architectural CAD    | [ARC 114]                  | F2         | 1            | 3          | 2              |
| CIS 110 Introduction to Computers | [ENG 090/RED 090/MAT 070]  | F1         | 2            | 2          | 3              |
| COE 111 Co-op Work Experience I   | [2.0 GPA/9 CrHrs in Major] | S2         | 0            | 10         | 1              |
| COE 110 World of Work             |                            | F1         | 1            | 0          | 1              |

**Total Semester Hours Required for Diploma:**

**36**

## Health Sciences

Health Sciences programs include those programs that provide direct client care or supportive services to occupations within the medical field. These programs may have limited enrollment opportunities based on available resources and licensure and accreditation requirements. Therefore, additional admission criteria and entrance tests may be required, as well as a competitive ranking system, to determine placement in the program if there are more applicants than spaces available within a program. Students must satisfy all admission requirements and must complete a Health Sciences application *each year* by the designated date in order to be considered for their program(s) of interest.

If selected for entrance to some programs, applicants may also be required to complete a health physical, immunization requirements, Certified Nursing Assistant I certification, and CPR certification prior to the start of classes. Failure to complete these additional criteria by the due date may result in removal from the program.

A satisfactory criminal background check and drug test may also be required for participation in the clinical component of some programs. Progress toward graduation might be limited by any inability to complete the clinical portion of the program. Students with certain misdemeanor or felony convictions may have limited license and employment opportunities.

### Overview of the Health Sciences Admission Process:

Each Health Sciences program has individualized Pre-Admission requirements that may include some or all of the following criteria:

1. Completed COA Application on file
2. All official high school and post-secondary transcripts on file
3. Minimum English, Math and Reading competencies for the program achieved either through placement testing or coursework
4. High School or equivalent courses with a grade of "C" or better in Biology
5. High School or equivalent courses with a grade of "C" or better in Chemistry
6. Minimal Grade Point Average as designated by the program

Once Pre-Admission requirements have been met, some programs may require additional admission criteria including scoring minimal required scores on entrance tests and other criteria specific to the program.

Admission Application: When students have met all preadmission, entrance testing, and other specific admission criteria for the program(s) of interest, they must fill out a Health Sciences Application form by the deadline date to officially apply and be included in the pool of applicants for that year and program. A competitive ranking process is utilized when the number of applicants to a program exceeds the spaces available.

Information related to Health Sciences admissions and curricula are subject to change.

Applicants should obtain the Admission Fact Sheet for their program(s) of interest or contact the Health Sciences department or the program coordinator of their program(s) of interest for more specific information on admissions to these programs.



**College of The Albemarle**  
 Associate in Applied Science  
 Architectural Technology (A 40 10 0)  
 Graduation Check Sheet – 2009-2011 Catalog

Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

| Title   | Sequence | Credit | Grade | Semester |
|---|----------|--------|-------|----------|
| <b>I. GENERAL EDUCATION COURSES</b>   |          |        |       |          |
| <b>Communications</b>   |          |        |       |          |
| ENG 111 Expository Writing [P=ENG090/RED090]  | F1       | 3      | _____ | _____    |
| ENG 112 Argument Based Research [P=ENG111]  | S1       | 3      | _____ | _____    |
| COM 120 Interpersonal Communication [P=ENG090/RED090]   | S2       | 3      | _____ | _____    |
| <b>Natural Science/Mathematics:</b>   |          |        |       |          |
| MAT 161 College Algebra [P=MAT080 or MAT090]  | F1       | 3      | _____ | _____    |
| <b>Social/Behavioral Science: (Choose 3 semester credit hours of approved courses from the CAA course List)</b> |          |        |       |          |
| _____ [P=Varies]  | S2       | 3      | _____ | _____    |
| <b>Humanities: (Choose 3 semester credit hours of approved courses from the CAA course List)</b>                |          |        |       |          |
| _____ [P=Varies]  | F2       | 3      | _____ | _____    |
| <b>II. MAJOR COURSES:</b>   |          |        |       |          |
| <b>A. CORE</b>  |          |        |       |          |
| ARC 111 Introduction to Architectural Technology  | F1       | 3      | _____ | _____    |
| ARC 112 Construction materials and Methods  | F1       | 4      | _____ | _____    |
| ARC 114 Architectural CAD   | S1       | 2      | _____ | _____    |
| ARC 213 Design Project [P=ARC111, ARC112 & ARC114]  | F2       | 4      | _____ | _____    |
| ARC 230 Environmental systems [P=ARC111 & MAT161]   | F2       | 4      | _____ | _____    |
| <b>C. OTHER MAJOR HOURS</b>   |          |        |       |          |
| ARC 113 Residential Architectural Technology [P=ARC111]   | S1       | 3      | _____ | _____    |
| ARC 212 Commercial Construction Technology [P=ARC111]   | F2       | 3      | _____ | _____    |
| ARC 250 Survey of Architecture  | S1       | 3      | _____ | _____    |
| ARC 240 Site Planning [P=ARC111]  | S1       | 3      | _____ | _____    |
| ARC 131 Building Codes [P=ARC112]   | F2       | 3      | _____ | _____    |
| ARC 220 Advanced Architectural CAD [P=ARC114]   | F2       | 2      | _____ | _____    |
| ARC 231 Architectural Presentations [P=ARC111]  | S2       | 4      | _____ | _____    |
| ARC 132 Specifications and Contracts [P=ARC112]   | S2       | 2      | _____ | _____    |
| CIS 110 Introduction to Computers [P=ENG090, RED090, MAT070]  | F1       | 3      | _____ | _____    |

|   |    |       |       |       |
|---|----|-------|-------|-------|
| PHY 151 College Physics I [ <i>P=MAT161, MAT171 or MAT175</i> ]     | S1 | 4/3   | _____ | _____ |
| -or-  |    |       |       |       |
| MAT 162 College Trigonometry [ <i>P=MAT161</i> ]                    |    |       |       |       |
| COE 111 Co-Op Work Experience [ <i>P=2.0 GPA/9 CrHrs in Major</i> ] | S2 | 1     | _____ | _____ |
| COE 110 World of Work [ <i>P=none</i> ]                             | F1 | 1     | _____ | _____ |
| <b>Total Semester Hours Required for Degree</b>                     |    | 66-67 |       |       |



**College of The Albemarle**  
 Associate in Applied Science  
 Architectural Technology (D 40 10 0)  
 Graduation Check Sheet – 2009-2011 Catalog

Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

| Title  | Sequence | Credit    | Grade | Semester |
|--|----------|-----------|-------|----------|
| <b>I. GENERAL EDUCATION COURSES</b>                          |          |           |       |          |
| <b>Communications</b>  |          |           |       |          |
| ENG 111 Expository Writing [P=ENG090/RED090]                 | F1       | 3         | _____ | _____    |
| <b>Natural Science/Mathematics:</b>                          |          |           |       |          |
| MAT 161 College Algebra [P=MAT080 or MAT090]                 | F1       | 3         | _____ | _____    |
| <b>II. MAJOR COURSES:</b>                                    |          |           |       |          |
| <b>A. CORE</b>   |          |           |       |          |
| ARC 111 Introduction to Architectural Technology             | F1       | 3         | _____ | _____    |
| ARC 112 Construction materials and Methods                   | F1       | 4         | _____ | _____    |
| ARC 114 Architectural CAD                                    | S1       | 2         | _____ | _____    |
| ARC 213 Design Project [P=ARC111, ARC112 & ARC114]           | S2       | 4         | _____ | _____    |
| ARC 230 Environmental systems [P=ARC111 & MAT161]            | F2       | 4         | _____ | _____    |
| <b>C. OTHER MAJOR HOURS</b>                                  |          |           |       |          |
| ARC 113 Residential Architectural Technology [P=ARC111]      | S1       | 3         | _____ | _____    |
| ARC 131 Building Codes [P=ARC112]                            | S2       | 3         | _____ | _____    |
| ARC 220 Advanced Architectural CAD [P=ARC114]                | F2       | 2         | _____ | _____    |
| CIS 110 Introduction to Computers [P=ENG090, RED090, MAT070] | S1       | 3         | _____ | _____    |
| COE 111 Co-Op Work Experience [P=2.0 GPA/9 CrHrs in Major]   | S2       | 1         | _____ | _____    |
| COE 110 World of Work [P=none]                               | F1       | 1         | _____ | _____    |
| <b>Total Semester Hours Required for Degree</b>              |          | <b>36</b> |       |          |