



# 2018-2019 EDUCATIONAL PLAN

## Bachelor of Applied Science

### Information Technology: Application Development

#### Recommended course schedule

##### Fall Quarter, Junior Year Credits

IT	310	Adv Web Applications	5
IT	320	Development Methodologies	5
Elective			5
			15

##### Winter Quarter, Junior Year Credits

IT	330	Software Engineering I	5
IT	350	Advanced Databases	5
MATH&	146	Introduction to Stats ** (M)	5
			15

##### Spring Quarter, Junior Year Credits

CMST	330	Prof & Org Communication ** (H) *	5
HUM	315	Ethics ** (H) *	5
IT	340	Software Engineering II	5
			15

##### Fall Quarter, Senior Year Credits

IT	410	Adv. Data Access Techniques	5
IT	440	Internship 1	5
MATH	228	Discrete Mathematics ** (M)	5
			15

##### Winter Quarter, Senior Year Credits

IT	420	Business Intelligence App.	5
IT	450	Internship 2	5
Elective			5
			15

##### Spring Quarter, Senior Year Credits

IT	430	Info Security for Developers	5
IT	460	BAS-IT: AD Capstone	5
Elective			5
			15

Total Credits 90

\* Course has a prerequisite.

\*\*Must meet GUR's (General University Requirements/Distribution Requirements) as listed under the Associate in Arts Degree (DTA).

QTR/YR \_\_\_\_\_ CREDITS \_\_\_\_\_

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QTR/YR \_\_\_\_\_ CREDITS \_\_\_\_\_

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QTR/YR \_\_\_\_\_ CREDITS \_\_\_\_\_

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The following courses must be completed prior to bachelor degree obtainment. Some courses can be included in the two year degree or be completed during the bachelor's program in addition to the required courses.

Students must complete a total of 60 credits of General Education courses carrying the following distributions prior to graduation. Courses that cannot be included in an associate degree are bolded.

- Communication (C) 10 credits
  - \_\_\_\_\_
  - \_\_\_\_\_
- Humanities (H) 10 credits
  - CMST 330 Prof & Org Communication**
  - HUM 315 Ethics**
- Social Science (SS) 10 credits
  - \_\_\_\_\_
  - \_\_\_\_\_
- Quantitative Skills (M) 15 credits
  - MATH& 141 or MATH 1118 or MATH 128
  - MATH& 146 Intro to Statistics**
  - MATH 228 Discrete Mathematics**
- Natural Science (NS) 10 credits One course with Lab
  - \_\_\_\_\_
  - \_\_\_\_\_
- Distribution Elective (C), (H), (SS), (M), (NS) 5 credits
  - \_\_\_\_\_

## DEGREE: Bachelor of Applied Science in Information Technology: Application Development

**Purpose:** The Bachelor of Applied Science Information Technology: Application Development (BAS-IT:AD) program is designed to ensure graduates have a strong technical foundation in application and software development and will be prepared to work in teams, manage IT projects, and prepare software documentation. The program outcomes align with the state Centralia College Learning Themes.

**Program Outcomes** - Students who successfully this program will have demonstrated the ability to:

- A. Develop efficient code following best practices in data design and software development
- B. Communicate effectively with stakeholders
- C. Demonstrated ability to troubleshoot and problem-solve defect from identification to resolution
- D. Write and present technical documentation
- E. Project management skills, such as estimating work effort, assessing risk, analyzing data, and defining project scope
- F. Perform software assurance activities

**Learning Themes:** General education outcomes at Centralia College help students, faculty, and the general public identify learning expected when a student has completed a degree or program. The administration, faculty, and staff have agreed upon the following five Learning Themes which students can expect to encounter in their courses by the completion of any degree.

**Reasoning:** The ability to extract information from data, develop ideas and solutions, establish logical progression in thinking, and problem solve using such procedures as literary analysis or the scientific methods.

**Written, Oral and Visual Communication:** The ability to make oneself understood in public, interpersonal, professional, artistic, and technical arenas.

**Exploration-Self and Others:** An awareness of the values, beliefs, customs, and contributions of persons from one's own and other traditions, ethnicities, classes, and genders.

**Resourcefulness:** The ability to adapt to change, such as technological innovations or environmental conditions.

**Responsibility:** The ability to be accountable to self, society, and the natural world.

### Estimated Quarterly Program Costs (subject to change without notice)

Resident Tuition (15 credits) and fixed fees*:	\$2180
US Citizen Nonresident Tuition (15 credits) and fixed fees*:	\$2321
Non US Citizen Nonresident Tuition (15 credits) and fixed	\$6169
*Tuition is subject to change due to State Legislative actions	
Books and supplies (estimate):	\$250

*Centralia College does not discriminate against any person on the basis of race, color, national origin, disability, sex, genetic information, or age in admission, treatment, or participation in its programs, services and activities, or in employment. All inquiries regarding compliance with access, equal opportunity and/or grievance procedures should be directed to the Centralia College Vice President of Human Resources and Legal Affairs, 600 Centralia College Blvd., Centralia, WA 98531.*