



# EDUCATIONAL PLAN

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

Admission into the BAS-IT: AD program is merit based. Meeting the minimum entrance requirements does not guarantee admission as the number of qualified applicants may exceed the number of available enrollment spaces. In order to be placed into the admissions pool, applicants must complete or submit the following:

- Completion of the BAS application materials and
- Proof of an earned associate's or higher degree from a regionally accredited college or university with a minimum cumulative GPA of 2.5.
- Proof of completing 10 or more lower division credits in programming languages with a minimum 2.0 grade in each course.

The following course must be completed prior to bachelor degree obtainment. The courses can be included in the two year degree or be completed during the bachelor's program in addition to the required courses. Students who have completed the requirements at the time of application will receive preferred entrance consideration.

- Successful completion of each of these required courses with a minimum 2.0 grade:
  - ENGL& 101 – English Composition I (5 credits)
  - Social Science – any 100 level or above course that carries Social Science (SS) distribution
  - CMST& 220 – Public Speaking (5 credits)
  - Natural Science – any 100 level or above course that carries Natural Science (S) distribution w/lab
  - MATH& 141 – Pre-Calculus I (5 credits)
    - OR
    - MATH 118 Linear Algebra (5 credits)
    - OR
    - MATH 128 Discrete Structures (5 credits)
  - Five additional credits in general education requirements

### Required course schedule Junior

#### Fall Quarter, First Year Credits

IT	310	Advanced Web Applications	5
IT	320	Application Dev. Methodologies	5
CMST&	330	Prof & Org Communication	5
			15

#### Winter Quarter, First Year Credits

MATH&	146	Introduction to Stats	5
IT	330	Application/Software Engineering I	5
IT	350	Adv. Database Design & Implem	5
			15

#### Spring Quarter, First Year Credits

IT	340	Application/Software Engineering II	5
		Social Science Elective	5
HUM	315	Ethics	5
			15

### Required course schedule Senior

#### Fall Quarter, Second Year Credits

IT	410	Adv. Data Access Techniques	5
IT	440	BAS-IT: AD Internship I	5
MATH	228	Discrete Mathematics	5
			15

#### Winter Quarter, Second Year Credits

IT	420	Business Intelligence App.	5
IT	450	BAS-IT: AD Internship II	5
		Natural Science elective	5
			15

#### Spring Quarter, Second Year Credits

IT	430	Information Security for Developers	5
IT	460	BAS-IT: AD Capstone	5
		General education elective**	5
			15

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

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

**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.

**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

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

Resident Tuition (15 credits) and fixed fees*:	\$2174
US Citizen Nonresident Tuition (15 credits) and fixed fees*:	\$2312
Non US Citizen Nonresident Tuition (15 credits) and fixed fees*:	\$6160
*Tuition is subject to change due to State Legislative actions	
Books and supplies (estimate):	\$100
Lab fees:	\$100

*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.*