EDMONDS COLLEGE

Bachelor of Applied Science - Information Technology Application Development (BAS-ITAD)
Information Sheet

What is the Bachelor of Applied Science?

The BAS degree is an applied bachelor's degree specifically designed to build on professional-technical associate's degrees that provide workplace skills, such as the Associate in Applied Science-Transfer (AAS-T) degree. The BAS degree differs from other bachelor degrees as it incorporates prior work experience and more hands on learning.

BAS in Information Technology Application Development Description

The BAS-ITAD degree focuses on cultivating astute software developers that will be exposed to and trained in software engineering, databases, data integration, mobile application programming, cloud computing, machine learning, emerging trends and applying this knowledge practically. The skill set taught in this program will provide students with the expertise and academic credentials to be competitive in the regional labor market.

Program Requirements Prior to Applying (60 credits)*

*If you completed the Computer Information Systems AAS-T or Computer Information Systems - Web Application and Cloud Developer AAS-T, you will have completed the following requirements.

Proficiency Courses (60 credits)

This is met through the core courses of the AAS-T or equivalent degree in Computer Information Systems. See the Proficiency Sheet for a full list. Each course requires a minimum 2.0 grade point.

General Education Courses (30 credits)

These credits may vary, please speak with the Program Manager for credit evaluation.

Distribution Area	Recommended Courses Prior to the BAS-ITAD
Communication Skills	❏ ENGL& 101 - English Composition I (5 credits) ❏ ENGL& 235 or ENGR 231 - Technical Writing (5 credits)
Quantitative Analysis/Symbolic Reasoning	❏ Math& 141 - Precalculus I (5 credits)
Humanities	❏ CMST& 210 - Interpersonal Communications (5 credits)
Natural Sciences and Mathematics	❏ PHYS& 114 - General Physics with Lab (5 credits) ❏ PHIL& 120 - Symbolic Logic (5 credits)

Remaining Program Requirements (90 credits)

Additional General Education Courses (30 credits)

These credits are in addition to what you would have completed in the AAS-T degrees and may be taken together with the BAS-ITAD courses. Please contact the Program Manager for advising and transcript evaluations.

Upper Division Requirements - ITAD Courses (60 credits)

All BAS-ITAD courses are hybrid format with online coursework and each class meets one night a week from 6-9 pm.

YEAR ONE	
Fall Quarter	❏ ITAD 300 Software Engineering (5 credits) ❏ *ITAD 315 Discrete Mathematics for Developers (5 credits)
Winter Quarter	❏ ITAD 330 Database Models and Design (5 credits) ❏ ITAD 345 Useability Engineering (5 credits)
Spring Quarter	❏ ITAD 360 Application and Data Integration (5 credits) ❏ ITAD 375 Cloud Computing (5 credits)

YEAR TWO	
Fall Quarter	❏ ITAD 400 Mobile Application Development (5 credits) ❏ ITAD 415 Introduction to Machine Learning (5 credits)
Winter Quarter	❏ ITAD 430 Embedded Systems (5 credits) ❏ ITAD 460 Capstone I (5 credits)
Spring Quarter	❏ ITAD 445 Emerging Trends (5 credits) ❏ ITAD 470 Capstone II (5 credits)

*MATH& 141 - Precalculus I is a prerequisite for ITAD 315 - Discrete Mathematics for Developers with a 2.0 grade point.

Admissions Process

Acceptance into the BAS-ITAD program is by application only and is determined holistically with the personal statement, grade point averages, work experience and completion of an AAS-T in Computer Information Systems (CIS) or an AAS-T in CIS - Web Application and Cloud Development. Students with an Associate of Technical Arts (ATA) degree in one of these (or other CIS) areas are encouraged to consult with the advisor regarding additional prerequisite course requirements.

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