Occupational Endorsement Certificate in Business Analytics

The Occupational Endorsement Certificate in Business Analytics helps students to acquire skills to meet workforce needs by preparing them for a high-demand job area in Business Analytics that cuts across multiple areas: healthcare, finance, marketing, management, global supply chain management, and logistics to name a few.

Admission Requirements

- Complete the Admission Requirements for Occupational Endorsement Certificates (http://catalog.uaa.alaska.edu/academicpoliciesprocesses/admissions/undergraduate/).

Graduation Requirements

- Complete the General University Requirements for Occupational Endorsement Certificates. (http://catalog.uaa.alaska.edu/undergraduateprograms/oecrequirements/)
- Complete the following major requirements with a minimum grade of C:

Code	Title	Credits
BADA A110	Computer Concepts in Business	3
BADA A210	Introduction to Programming for Business Analytics	3
ECON A227	Introductory Statistics for Economics and Business	3
MATH A121	College Algebra for Managerial and Social Sciences [1]	3-4
or MATH A151	College Algebra for Calculus	
Choose two courses from the list below:		**6**
BADA A330	Database Systems	
BADA A470	Business Analytics, Data Science, and Machine Learning	
BADA A490	Advanced Topics in Management Information Systems [2]	
Total		**18-19**

[1] *Some of these courses have prerequisites or require a placement exam prior to registration. Please see an advisor for assistance.*

[2] *Approved course titles include **Data Visualization using one or more of the major software/tools such as Python, Tableau, R, Spotfire, and Power BI.** All other course titles must be approved by the student's academic advisor.*

A minimum of 18 credits is required for this certificate.

Program Student Learning Outcomes

Students graduating with the Occupational Endorsement Certificate in Business Analytics will be able to:

- Complete a comprehensive, hands-on project utilizing spreadsheet, database, word processing, and presentation software.
- Define and describe current technologies and their applications to business.
- Use appropriate analytical techniques to identify, evaluate, and select logical solutions that meet the strategic goals of the organization.
- Demonstrate knowledge of and proficiency in the use of current information technologies for analyzing data of importance to business.

Sample Plan

The academic plan below is one pathway through the degree/certificate. It includes all requirements, taking into account recommendations from program faculty. Each student's plan may vary according to their initial course placement (http://catalog.uaa.alaska.edu/academicpoliciesprocesses/academicstandardsregulations/courseplacement/), intended course load, additional majors and/or minors, and their placement into required prerequisite courses. Any change in the plan below can have an unforeseen impact on the rest of the plan. **Therefore, it is very important to meet with your academic advisor to verify your personal academic plan.**

Please review the following terms, definitions, and resources associated with the sample academic plan below.

- Each course in the far left column links to a pop-up bubble with a course description, prerequisite requirements, and associations with university requirements. For example, if a course fulfills a general education requirement, you will see that in the pop-up bubble.
- **GER**: indicates a General Education Requirement (http://catalog.uaa.alaska.edu/undergraduateprograms/baccalaureaterequirements/gers/). GERs that also count toward degree/certificate requirements appear as a specific course in the plan. For these courses, "GER" is not indicated explicitly in the table, but if you click on the course, you will see the course's GER status in the pop-up bubble.
- **Program Elective**: indicates a specific course selection determined by program faculty to fulfill a degree/certificate requirement. Students should seek assistance from their academic advisor.
- **Elective**: indicates an open selection of 100-400 level university courses to fulfill elective credits needed to meet the minimum total credits toward the degree/certificate.
- **Upper Division Program Elective**: indicates a specific 300-400 level course selection determined by the program faculty to fulfill a degree/certificate requirement. Students should seek assistance from their academic advisor.
- **Upper Division Elective**: indicates an open selection of 300-400 level courses to fulfill elective credits needed to meet the minimum total credits toward the degree/certificate. These courses must be

upper division in order to meet General University Requirements for the particular degree/certificate type.

Course	Title	Credits
First Year		
Fall		
BADA A110	Computer Concepts in Business	3
MATH A121 or MATH A151	College Algebra for Managerial and Social Sciences or College Algebra for Calculus	3-4
	Credits	**6-7**
Spring		
BADA A210	Introduction to Programming for Business Analytics	3
ECON A227	Introductory Statistics for Economics and Business	3
	Credits	**6**
Second Year		
Fall		
Program Elective		3
Program Elective		3
	Credits	**6**
	Total Credits	**18-19**