

Washtenaw Community College

Program Discontinuation Form

Program Code: CTADS	Program Name: Applied Data Analytics	Effective Term: Fall 2022
Division Code: BCT	Department: Business	

Directions: Complete all information below.

Rationale for discontinuation:

Most Data Analytics programs are at the master's level, with many colleges and universities now starting to offer programs at the baccalaureate level. These programs tend to be intensive in both computer information systems (particularly databases) and business/data analytics. WCC's data-analytics certificate didn't qualify students for even entry level jobs in the field. Moreover, it had low enrollment, significant pre-requisites placed on the courses, and only 12 people ever enrolled in the certificate-specific course, BMG 285 (only 1 in 2021).

Describe the discontinuation, transition and course phase-out plan. Please include the number of currently enrolled students.

Any current students will be offered course substitutes.

List departments using this program and the date they were notified of the planned discontinuation.

Business & CSIT. Both departments are aware of the program discontinuation.

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Doug Waters	/s/ Doug Waters	4/29/2021
Department Chair	Doug Waters	/s/ Doug Waters	4/29/2021
Division Dean/Administrator	Eva Samulski	<i>Eva Samulski</i>	04/29/2021

Please submit completed form to the Office of Curriculum and Assessment (SC 257) or by e-mail to curriculum.assessment@wccnet.edu

Once reviewed by the appropriate faculty committees we will secure the signature of the VPI and President.

Reviewer	Print Name	Signature	Date
Curriculum Committee Chair	Lisa Veasey	/s/ Lisa Veasey	5/24/21
Vice President for Instruction	Kimberly Hurns	Kimberly Hurns	6/1/2021
President	Rose B. Bellanca	<i>Rose B. Bellanca</i>	6/17/21

Do not write in shaded area. Entered in: Banner _____ C&A Database _____ Log File _____ Board Approval _____

Reviewed by C&A Committees 5/20/21

Program Information Report

Business & Culinary Arts**Applied Data Science (CTADS)****Certificate****Program Effective Term: Fall 2021**

The Applied Data Science certificate is intended for students who want to pursue a career in data analytics ("big data") or enhance their current business skills. Students learn how to capture, manipulate, and analyze structured data-the massive volume of numeric values that can be easily stored and sorted. They learn how to transform data into information to enable faster and more intelligent decision-making.

Continuing Eligibility Requirements:

Minimum grade of "C" in major/area courses.

Major/Area Requirements		(17 credits)
BMG 265	Business Statistics	3
BMG 275	Business and Supply Chain Analytics	4
BMG 285	Applied Data Analytics	4
CIS 110	Introduction to Computer Information Systems	3
CIS 282	Database Principles and Application	3

Minimum Credits Required for the Program:**17**

Program Information Report

Science, Computer Technology, Engineering & Math**Applied Data Science (CTADS)****Certificate****Program Effective Term: Fall 2021**

The Applied Data Science certificate is intended for students who want to pursue a career in data analytics ("big data") or enhance their current business skills. Students learn how to capture, manipulate, and analyze structured data-the massive volume of numeric values that can be easily stored and sorted. They learn how to transform data into information to enable faster and more intelligent decision-making.

Continuing Eligibility Requirements:

Minimum grade of "C" in major/area courses.

Major/Area Requirements		(17 credits)
BMG 265	Business Statistics	3
BMG 275	Business and Supply Chain Analytics	4
BMG 285	Applied Data Analytics	4
CIS 110	Introduction to Computer Information Systems	3
CIS 282	Database Principles and Application	3

Minimum Credits Required for the Program:**17**

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: **Program Name:** Applied Data Science (CTADS)
CTADS

Effective Term: Fall 2021

Division Code: **Department:** BMG
BCT

Directions:

1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

- | | |
|---|---|
| <input type="checkbox"/> Review | <input type="checkbox"/> Program admission requirements |
| <input checked="" type="checkbox"/> Remove course(s): <u>CIS 285 as an option</u> | <input type="checkbox"/> Continuing eligibility requirements |
| <input type="checkbox"/> Add course(s): _____ | <input type="checkbox"/> Program outcomes |
| <input type="checkbox"/> Program title (title was _____) | <input type="checkbox"/> Accreditation information |
| <input type="checkbox"/> Description | <input type="checkbox"/> Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) |
| <input type="checkbox"/> Type of award | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Advisors | |
| <input type="checkbox"/> Articulation information | |

Show all changes on the attached page from the catalog.

Rationale for proposed changes or discontinuation: CIS 285 has not run in several years, so the program is not giving an either/or option between a CIS class and a BMG class. CIS 285 has been discontinued by the Computer Science Department. BMG 285 is Data Analytics, which fits the applied-data-science program just as well if not better than CIS 285 did.

Financial/staffing/equipment/space implications: None

List departments that have been consulted regarding their use of this program. Computer Science

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Doug Waters	/s/ Doug Waters	12/03/2020
Department Chair	Doug Waters	/s/ Doug Waters	12/03/2020
Division Dean/Administrator	Eva Samulski	/s/ Eva Samulski	12/03/2020
Please submit completed form to the Office of Curriculum and Assessment (SC 257). Once reviewed by the appropriate faculty committees we will secure the signature of the VPI and President.			
Vice President for Instruction	Kimberly Hurns	<i>Kimberly Hurns</i>	12/21/2020
President	Rose B. Bellanca		

Do not write in shaded area. Entered in: Banner _____ C&A Database _____ Log File _____ Board Approval _____

Reviewed by C&A Committees 12/10/20

Program Information Report

CTADS

School of Business and Entrepreneurial Studies

Learn the fundamentals you will need to become a business leader or entrepreneur. These programs help you develop entry-level skills in various aspects of business. Whether your goal is to make your place in an existing industry or branch out on your own, these programs can provide the foundation for success.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

After completing a certificate, students can progress to the next level, the advanced certificate. The credit hours required for these programs also vary. This type of certificate provides a more specialized level of skill development, and often allows students to upgrade their positions at their places of employment.

The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, an advanced certificate, and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, advanced certificate (if one exists) and General Education requirements.

Business

Choose one or more areas in the field of business as you prepare for your future.

Program Information Report**Applied Data Science (CTADS)
Certificate****Program Effective Term: Fall 2015**

The Applied Data Science certificate is intended for students who want to pursue a career in data analytics ("big data") or enhance their current business skills. Students learn how to capture, manipulate, and analyze structured data-the massive volume of numeric values that can be easily stored and sorted. They learn how to transform data into information to enable faster and more intelligent decision-making.

Continuing Eligibility Requirements:

Minimum grade of "C" in major/area courses.

Minimum Credits Required for the Program		
BMG 265	Business Statistics	3
BMG 275	Business and Supply Chain Analytics	4
BMG 285 or	Applied Data Analytics	4
CIS 285	Applied Data Analytics	4
CIS 110	Introduction to Computer Information Systems	3
CIS 282	Database Principles and Application	3
Minimum Credits Required for the Program:		17

Program Information Report**School of Information Technology**

The School of Information Technology gathers the diverse areas that make up the computer technology of today. From basic programming languages to systems development through networking, these programs provide the core of information technology. Develop skills in computer networking or programming in the growing field of applied information technology.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

After completing a certificate, students can progress to the next level, the advanced certificate. The credit hours required for these programs also vary. This type of certificate provides a more specialized level of skill development, and often allows students to upgrade their positions at their places of employment.

The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, an advanced certificate, and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, an advanced certificate (if it exists) and General Education requirements.

Programming

Learn the foundation of computer programming or specialize in a programming language through these programs.

Program Information Report

Applied Data Science (CTADS)

Certificate

Program Effective Term: Fall 2015

The Applied Data Science certificate is intended for students who want to pursue a career in data analytics ("big data") or enhance their current business skills. Students learn how to capture, manipulate, and analyze structured data-the massive volume of numeric values that can be easily stored and sorted. They learn how to transform data into information to enable faster and more intelligent decision-making.

Continuing Eligibility Requirements:

Minimum grade of "C" in major/area courses.

BMG 265	Business Statistics	3
BMG 275	Business and Supply Chain Analytics	4
BMG 285 or	Applied Data Analytics	4
CIS 285	Applied Data Analytics	3
CIS 110	Introduction to Computer Information Systems	3
CIS 282	Database Principles and Application	3
Minimum Credits Required for the Program:		17

PROGRAM PROPOSAL FORM

- Preliminary Approval** – Check here when using this form for preliminary approval of a program proposal, and respond to the items in general terms.
- Final Approval** – Check here when completing this form after the Vice President for Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

<p>Program Name:</p> <p>Division and Department:</p> <p>Type of Award:</p> <p>Effective Term/Year:</p> <p>Initiator:</p>	<p>Applied Data Science Certificate</p> <p>Business and Computer Technologies (BMG/CIS)</p> <p><input type="checkbox"/> AA <input type="checkbox"/> AS <input type="checkbox"/> AAS <input checked="" type="checkbox"/> Cert. <input type="checkbox"/> Adv. Cert. <input type="checkbox"/> Post-Assoc. Cert. <input type="checkbox"/> Cert. of Comp.</p> <p>Fall 2015</p> <p>Cheryl Byrne (BMG), Mike Galea (CIS)</p>		
<p>Program Features Program's purpose and its goals. Criteria for entry into the program, along with projected enrollment figures. Connection to other WCC programs, as well as accrediting agencies or professional organizations. Special features of the program.</p>	<p>The purpose of this program is to provide foundational skills in analytics of structured data.</p> <p>In addition to the standard college-level reading and writing requirements, the student is expected to have some basic business skills and basic knowledge of Microsoft Office. Our conservative estimate is that 15 students will be enrolled by the end of year 1 and 30 by the end of year 2. An effective marketing program, however, will increase this estimate.</p> <p>While there is no direct connection to other WCC programs, this will be an attractive program for business and computer science students.</p>		
<p>Need Need for the program with evidence to support the stated need.</p>	<p>"Big Data refers to the immense amount of data collected and analyzed from every imaginable device in our modern culture, and has fueled one of the most hyper-growth niches of employment in a century" (http://bigdatajobsindex.com/). In fact, according to Jack Phillips, CEO of the International Institute for Analytics, "There's no question that the number one requirement [for] enterprises that are serious about gaining a competitive advantage using data and analytics is going to be the talent to run that program" (http://www.computerworld.com/article/2492676/big-data/big-data-big-jobs-.html).</p> <p>That means that as big data continues to gather momentum, there are career opportunities at all levels for professionals with the right qualifications. According to a report published in 2014 by McKinsey & Co., the U.S. could face a shortage by 2018 of 140,000 to 190,000 people with "deep analytical talent" and of 1.5 million people capable of analyzing data in ways that enable business decisions.</p>		
<p>Program Outcomes/Assessment State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program. Include assessment methods that will be used to determine the effectiveness of the program.</p>	<p><u>Outcomes</u></p> <ol style="list-style-type: none"> 1. Identify basic data science methodologies. 2. Apply basic analytics techniques to transform data into information. 3. Construct basic database queries. 	<p><u>Assessment method</u></p> <ol style="list-style-type: none"> 1. BMG285 departmental exam. 	

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Curriculum List the courses in the program as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list.	Advanced Applied Data Analytics Certificate (17 cr) BMG 265 Business Statistics 3 cr BMG 275 Business and Supply Chain Analytics 4 cr CIS 282 Relational Database Concepts and Application 3 cr CIS 110 Introduction to Computer Information Systems 3 cr CIS285/BMG285 Applied Data Analytics 4 cr		
Budget Specify program costs in the following areas, per academic year:		START-UP COSTS	ONGOING COSTS
	Faculty	\$.	\$.
	Training/Travel	.	.
	Materials/Resources		
	Facilities/Equipment	.	.
	Other	.	.
	TOTALS:	\$.	\$.
Program Description for Catalog and Web site	The Applied Data Science certificate is intended for students who want to pursue a career in data analytics (“big data”) or enhance their current business skills. Students learn how to capture, manipulate, and analyze structured data – the massive volume of numeric values that can be easily stored and sorted. They learn how to transform data into information to enable faster and more intelligent decision-making.		
Program Information	Accreditation/Licensure - None Advisors – Cheryl Byrne/Mike Galea Advisory Committee - Admission requirements - Articulation agreements – Continuing eligibility requirements – Minimum grade of “C” in major/area courses.		

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
Identify basic data science methodologies.	CIS/BMG285 departmental exam	Fall 2018	All students in CIS/BMG285	All students in CIS/BMG285
Apply basic analytics techniques to transform data into information.	CIS/BMG285 departmental exam	Fall 2018	All students in CIS/BMG285	All students in CIS/BMG285
Construct basic database queries.	CIS/BMG285 departmental exam	Fall 2018	All students in CIS/BMG285	All students in CIS/BMG285

Recommended Course Sequences

First Semester

Class	Title	Credits
		4
BMG 265	Business Statistics	3
CIS 110	Introduction to Computer Information Systems	

Total

Second Semester

Class	Title	Credits
BMG 275	Business & Supply Chain Analytics	3
CIS 282	Relational Database Concepts and Application	4

Total

Third Semester

Class	Title	Credits
BMG285	Applied Data Analytics	4

Total

Fourth Semester

Class	Title	Credits
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Total

Total Credits Required

17

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Scoring and analysis plan:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally-developed rubric, external evaluation, other). Attach the rubric.

Exam - answer key, and .case studies

2. Indicate the standard of success to be used for this assessment.

70% of students will score 70% or higher.

3. Indicate who will score and analyze the data.

Departmental Faculty

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	CALFETTE M. YOUNG	<i>[Signature]</i>	2/19/15
Dean	KIMBARK HURONS	<i>[Signature]</i>	2/19/15
Vice President for Instruction <input type="checkbox"/> Approved for Development <input type="checkbox"/> Final Approval	William Abernethy	<i>[Signature]</i>	2/20/15
President	Rose Bellanca	<i>[Signature]</i>	2/23/15
Board Approval			3/04/15