Program Information Report

Manufacturing & Automotive

Automotive Test Technician (APATT)
Associate in Applied Science Degree
Program Effective Term: Fall 2020

In this program, students will be introduced to the test and data acquisition processes used in automotive testing. Students will learn to assemble and disassemble components for automotive testing. Diagnosis, maintenance and proper operation of complex data acquisition equipment are essential. Students will learn to monitor and calibrate testing instruments. Job possibilities include working in a crash lab or other testing facility.

First Semester		(15 credits)
ASV 131	Automotive Electrical	4
ASV 132	Automotive Engines	4
MTT 102	Machining for the Technologies	2
	Restricted Electives select a minimum of 2 credits: ABR 114 or WAF 105	2
Elective	Writing Elective(s)	3

Second Semester		(15 credits)
ASV 256	Electrical and Electronic Systems	4
CST 185	Local and Mobile Networking Essentials	4
	Restricted Electives select a minimum of 4 credits: ABR 111, ABR 140, ASV 174, ASV 251, ASV 257, ASV 269, ASV 279, MST 110, MTT 102, or WAF 103	4
Elective	Arts/Human. Elective(s)	3

Third Semester		(13 credits)
ASV 277	Automotive Powertrain Systems	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Elective	Nat. Sci. Elective(s)	3

Fourth Semester		(17 credits)
ABR 201	Lightweighting Composite Repair	4
ASV 270	Automotive Test and Development	4
	Restricted Electives to reach minimum 60 credits: ABR 111, ABR 140, ASV 174, ASV 251, ASV 257, ASV 269, ASV 279, MST 110, MST 220, MTT 102, WAF 103	6
Elective	Soc. Sci. Elective(s)	3

Minimum Credits Required for the Program: **60**

Notes:

Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page for more information: http://www.wccnet.edu/services/transferresources/mta/

Program Code:	Program Name:	Effective Term:
APATT	Automotive Test Technician	Fall 2020
Division Code:	Department:	
ATP	Transportation Technologies	

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:

☐ Review
X Remove course(s): WAF109, MEC101, WAF 125
☒ Add course(s): ___WAF103___
☐ Program title (title was _____)
☐ Description
☐ Type of award
☒ Advisors *Add Niki Lee*
☐ Articulation information

☐ Program admission requirements
☐ Continuing eligibility requirements
☐ Program outcomes

☐ Accreditation information
☐ Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses)
☐ Other

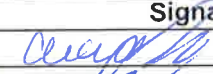Show all changes on the __attached page from the catalog.__

Rationale for proposed changes or discontinuation:

MEC 101 and WAF 109 are being removed. MEC 101 is being removed from a restricted electives list. WAF109 is being replaced by WAF105 or ABR114. This change is being made to insure that all students will gain experience with transportation materials processing.

The frequency of each course offering, the time(s) of day each semester, and the alignment of content with expressed employers' skill sets were considered.
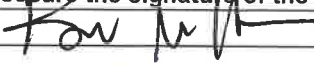
Financial/staffing/equipment/space implications:
None

List departments that have been consulted regarding their use of this program.
Automotive Body Department (Now Transportation Technologies), Motorcycle Technology Department (Now Transportation Technologies), Industrial Technology Department, Welding and Fabrication Department

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Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Allen Day		12/12/2019
Department Chair	Allen Day		12/12/2019
Division Dean/Administrator	Brandon Tucker		

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	_(signature)_	2/3/2020
President	Rose B. Bellanca		

Reviewed by C&A Committee 1/23/20

Manufacturing & Automotive

Automotive Test Technician (APATT)
Associate in Applied Science Degree
Program Effective Term: **Fall 2019**

In this program, students will be introduced to the test and data acquisition processes used in automotive testing. Students will learn to assemble and disassemble components for automotive testing. Diagnosis, maintenance and proper operation of complex data acquisition equipment are essential. Students will learn to monitor and calibrate testing instruments. Job possibilities include working in a crash lab or other testing facility.

First Semester		(15 credits)
ASV 131	Automotive Electrical	4
ASV 132	Automotive Engines	4
MTT 102	Machining for the Technologies	2
WAF 109	Welding Safety and OSHA Regulations	2
Elective	Writing Elective(s)	3

Second Semester		(15 credits)
ASV 256	Electrical and Electronic Systems	4
Elective	Arts/Human. Elective(s)	3
CST 185	Local and Mobile Networking Essentials	4
Elective	Restricted elective(s) select a minimum of 4 credits: ABR 111, ABR 114, ASV 174, ASV 251, ASV 257, ASV 269, ASV 279, MEC 101, MST 110, MTT 102, WAF 105, WAF 125	4

Third Semester		(13 credits)
ASV 277	Automotive Powertrain Systems	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Elective	Nat. Sci. Elective(s)	3

Fourth Semester		(17 credits)
ABR 201	Lightweighting Composite Repair	4
ASV 270	Automotive Test and Development	4
Elective	Soc. Sci. Elective(s)	3
Elective	Restricted elective(s) to reach minimum 60 credits: ABR 111, ABR 114, ASV 174, ASV 251, ASV 257, ASV 269, ASV 279, MEC 101, MST 110, MTT 102, WAF 105, WAF 125	6

Minimum Credits Required for the Program: **60**

Notes:

Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page for more information: http://www.wccnet.edu/services/transferresources/mta/

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code:	**Program Name:**	**Effective Term:**
APATT	Automotive Test Technician	Fall 2019
Division Code:	**Department:**	
ATP	Automotive Service Department	

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:

☐Review

X Remove course(s): MEC 101, WAF 139, ASV 135
X Add course(s): WAF 109, CST 185
As restricted electives: ASV 174, ASV 257, ASV 269, ASV 279, ABR 111, ABR 114, MST 110, MEC 101, MTT 102, WAF 125

☐Program title (title was _)
☐Description
☐Type of award
☐Advisors

☐Articulation information

☐Program admission requirements

☐Continuing eligibility requirements
☐ Program outcomes
☐Accreditation information

☐Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses)
☐Other

Show all changes on the attached page from the catalog.

Rationale for proposed changes or discontinuation:

MEC 101, WAF 139, ASV 135 are being removed. Those courses are being replaced with WAF 109, CST 185, and restricted electives. Program goals and employer alignment were better improved with the addition of the new course and the updated restricted electives. WAF 109, a new course has safety content from ASV135, and is a prerequisite for other restricted elective WAF courses. CST 185 was added as a required course in collaboration with the Computer Instruction Department to add new content to this program to align with the technological advances in the target career path.

The frequency of each course offering, the time(s) of day each semester, and the alignment of content with expressed employer's skill sets were considered. Prerequisites were also reviewed, and the courses were chosen to limit registration restrictions that always require overrides. Department Chair of each department was consulted to consider prerequisite updates to avoid automatic unneeded overrides for registration.

Financial/staffing/equipment/space implications:
None

List departments that have been consulted regarding their use of this program.
Automotive Body Department, Motorcycle Technology Department, Industrial Technology Department, Computer Instruction Department, Welding and Fabrication Department

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Signatures:	_Lvcany_	_Lisa Veay_	_4/11/19_
Reviewer	**Print Name**	**Signature**	**Date**
Initiator	Allen Day		11/19/2018
Department Chair	Justin Morningstar		11/19/2018
Division Dean/Administrator	Brandon Tucker		11/21/18
Vice President for Instruction	KIMBERLY HURNS		11/28/18
President	Rose B Bellanca		1/3/19

Do not write in shaded area. Entered in: Banner_____ C&A Database _4/12/19_ Log File _4/12/19_ Board Approval _____

Please submit completed form to the Office of Curriculum and Assessment (SC 257).

WCC General Education Requirements
Effective Fall 2018

Associate degree programs were updated to meet the revised WCC general education requirements below.

Course Distribution Requirements

Associate degree students must complete courses from each of six General Education content areas. The requirements vary, depending on which degree is being earned. The number of general education credit hours required for each degree is as follows.

	AA	AS	AAS
Writing/Composition	3-4 credits	3-4 credits	3-4 credits
2nd Writing/Composition or Communication	3-4 credits	3 credits	3 credits
Mathematics	3-4 credits	3-4 credits	3-4 credits
Natural Sciences [1]	7-8 credits	7-8 credits	3-4 credits
Social & Behavioral Science [2]	6 credits	6 credits	3 credits
Arts and Humanities [3]	6 credits	6 credits	3 credits
General Education Electives to reach 30 credits	0-2 credits	0-2 credits	N/A
Minimum	30 credits	30 credits	18 credits

[1] Two courses in Natural Science including one with laboratory experience (from two disciplines)
[2] From two disciplines
[3] From two disciplines

Program Information Report

Automotive Test Technician (APATT)
Associate in Applied Science Degree
Program Effective Term: **Fall 2018**

In this program, students will be introduced to the test and data acquisition processes used in automotive testing. Students will learn to assemble and disassemble components for automotive testing. Diagnosis, maintenance and proper operation of complex data acquisition equipment are essential. Students will learn to monitor and calibrate testing instruments. Job possibilities include working in a crash lab or other testing facility.

First Semester		(15 credits)
ASV 131	Automotive Electrical	4
ASV 132	Automotive Engines	4
MTT 102	Machining for the Technologies	2
WAF 105	Introduction to Welding Processes	2
Elective	Writing Elective(s)	3

Second Semester		(15 credits)
ASV 135	Facility Operations	3
ASV 256	Electrical and Electronic Systems	4
MEC 101	3D Modeling and Blueprint Reading	2
Elective	Arts/Human. Elective(s)	3
Elective	Elective(s) to reach minimum 60 credits	3

Third Semester		(13 credits)
ASV 277	Automotive Powertrain Systems	4
WAF 139	Basic Metal Fabrication	3
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3

Fourth Semester		(17 credits)
ASV 270	Automotive Test and Development	4
ABR 201	Lightweighting Composite Repair	4
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Elective	Elective(s) credits to reach a minimum of 60 credits	3

Minimum Credits Required for the Program: **60**

Notes:

Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page for more information: http://www.wccnet.edu/services/transferresources/mta/

WASHTENAW COMMUNITY COLLEGE
GENERAL EDUCATION REVISION AAS PROGRAM CHANGE FORM 2018-2019

Program Code: *APTT II*	Program Name: *Automotive Test Technician*
Division Code: *ATP*	Department: *ASV*

This form is to be used only for General Education Revision Program Changes for Associate in Applied Science (AAS) programs. Any other program changes should be submitted separately using a standard Program Change Form.

Directions:
1. Review each general education area under **Requested Changes** below and respond as needed.
2. Attach the semester program layout showing the current program listing from the WCC catalog.
   a. Indicate any changes to be made on the semester layout.
   b. Draw a line through any courses that should be removed on the semester layout.
   c. Write in any courses that need to be added on the semester layout.
3. Submit this form and semester program layout to the Office of Curriculum and Assessment (SC 257).

Current General Education Requirements AAS		Revised General Education Requirements 2018-2019 AAS	
Writing	3-4 credits	English Composition	3 - 4 credits
Speech	3 credits	2nd Course in English Composition or one course in Communication	3 - 4 credits
Mathematics	3 - 4 credits	Mathematics	3 - 4 credits
Natural Sciences	3 - 4 credits	Natural Sciences	3 - 5 credits
Social & Behavioral Sciences	3 credits	Social & Behavioral Sciences	3 credits
Arts & Humanities	3 credits	Arts & Humanities from	3 credits
Critical Thinking	0 credits	Total	18 credits
Computer & Information Literacy	3 credits		
Total	21-24 credits		

Please review each General Education Area in the chart below, and record the needed changes in the chart and on the attached semester program layout.

REQUESTED CHANGES	
	General Education Area
	English Composition – The requirement for one writing/English composition course remains the same. No changes will be made unless specifically requested below. (Use Writing Elective or ENG 111)
	Optional Change: *NC*
	2nd Course in English Composition or one course in Communication WCC previously required both a second composition/writing course and a communication course. Your options are: 1. Allow students to select any course that meets composition/writing or communication *(recommended)*. 2. Require students to take a specific composition course (identify course below and on semester layout). 3. Require students to take a specific communication course (identify course below and on semester layout).
	Requested Change:

Mathematics – The requirement for one mathematics course remains the same. However, the courses that meet the MTA requirement have changed slightly. See the course listing for details	
Optional Change: *NC*	
Natural Sciences - The requirement for one natural science course remains the same. No changes will be made unless specifically requested below.	
Optional Change: *NC*	
Social & Behavioral Sciences – The requirement for one social and behavioral science course remains the same. No changes will be made unless specifically requested below.	
Optional Change: *NC*	
Arts & Humanities – The requirement for one arts and humanities course remains the same. No changes will be made unless specifically requested below. (Note: A department can designate a COM course as a requirement here. The same course cannot be counted in two areas.)	
Optional Change: *NC*	

Computer and Information Literacy

The requirement for computer and information literacy has been removed. Your options are:

1. Continue to require a specific computer course. If a specific course is required in your program, we will leave it there. If you previously used "Computer and Information Literacy Course," you will need to specify either a specific course or a list of courses from which to choose.
2. Remove the computer and information literacy course if the program will still meet the minimum of 60 credit hours.
3. Remove the computer and information literacy course and replace the course with elective or other credits as needed to meet the minimum of 60 credit hours.

Required Change:

Reviewer	Print Name	Signature	Date
Initiator	Allen Day	*(signature)*	12/12/2017
Department Chair	Justin Morningstar	*(signature)*	12/12/17
Division Dean/Administrator	Brandon Tucker	*(signature)*	12/12/17
Vice President for Instruction		*(signature)*	1/9/18

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         1/12/18   1/12/18

Program Information Report

A PATT

School of Automotive and Motorcycle Technology

If you are looking for the best technical training in the automotive or motorcycle field, WCC's School of Automotive and Motorcycle Technology is the place for you. Whether your focus is finding employment as a technician, learning about performance equipment, or creating a custom look, our introductory and advanced certificate programs, as well as associate degrees, will enhance your personal and professional qualifications. These programs offer the perfect blend of classroom and hands-on education not available in many other educational settings.

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, advanced certificate (if one exists), 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 and General Education requirements.

Automotive Services

The automotive certificate prepares the student for work as an automotive services technician, diagnosing and repairing malfunctions in automobile systems.

Program Information Report

Automotive Test Technician (APATT)
Associate in Applied Science Degree
Program Effective Term: **Fall 2015**

In this program, students will be introduced to the test and data acquisition processes used in automotive testing. Students will learn to assemble and disassemble components for automotive testing. Diagnosis, maintenance and proper operation of complex data acquisition equipment are essential. Students will learn to monitor and calibrate testing instruments. Job possibilities include working in a crash lab or other testing facility.

First Semester (15 credits)

Code	Course	Credits
ASV 131	Automotive Electrical	4
ASV 132	Automotive Engines	4
MTT 102	Machining for Auto Applications	2
WAF 105	Introduction to Welding Processes	2
Elective	Writing Elective(s)	3-4

Second Semester (15 credits)

Code	Course	Credits
ASV 135	Facility Operations	3
ASV 256	Electrical and Electronic Systems	4
MEC 101	3D Modeling and Blueprint Reading	2
Elective	Arts/Human. Elective(s)	3
Elective	Computer Lit. Elective(s)	3

Third Semester (14 credits)

Code	Course	Credits
ASV 277	Automotive Powertrain Systems	4
WAF 200	Layout Theory Welding	3
Elective	Math Elective(s)	4
Elective	Speech Elective(s)	3

Fourth Semester (16 credits)

Code	Course	Credits
ASV 270	Automotive Test and Development	4
ATT 203	Lightening Materials in Transportation	3
Elective	Nat. Sci. Elective(S)	4
Elective	Soc. Sci. Elective(s)	3
Elective	Elective(s) credits to reach a minimum of 60 credits	2

Minimum Credits Required for the Program: 60

Notes:

Students may elect to take the following optional courses in Semester 5 to meet MTA:
-Arts and Humanities Elective (3 credits)
-Natural Science Elective (3-4 credits)
-Social Science Elective (3 credits)

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.

Program Name:	Automotive Test Technician
Division and Department:	ATP AUTD
Type of Award:	☐ AA ☐ AS ☒ AAS ☐ Cert. ☐ Adv. Cert. ☐ Post-Assoc. Cert. ☐ Cert. of Comp.
Effective Term/Year:	Fall 2015
Initiator:	Allen Day

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.	This program is being developed in coordination with the Skilled Trades Equipment grant. In this program, student will develop a technical background in both automotive component testing and defect analysis based on data acquisition. The student will gain experience in developing and validating engine and automotive component testing systems. Pre-production testing of components occurs before the engine is put together. Topics covered include fuel mapping and thermal efficiency. This program utilizes some existing courses from the automotive services (APASRV) associate degree program to provide the background for testing automotive components. Much of the work takes place in crash labs and other testing facilities.
Need Need for the program with evidence to support the stated need.	This program is developed in coordination with the Skilled Trades Equipment grant and as a result of round table discussion with industry leaders. Three local employers, Toyota (Testing Center), Roush Industries and Ford Testing in Allen Park, who participated in the round table discussion, identified openings in automotive testing labs. These employers were able to identify the key knowledge and skills needed for students to be successful in this career field.

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.	Outcomes 1. **Develop and complete an automotive testing sequence used in automotive part defect mapping.** 2. **Acquire, analyze and interpret test data.** 3. **Recognize and appropriately use advanced, lightweight automotive materials**	Assessment method 1. **ASV 270 Departmental Exam** 2. **ASV 270 Departmental Exam** 3. **A̶T̶C̶ ATT 203 Departmental Exam**

Curriculum	Semester 1		15 - 16 Credits
	Writing Elective		3-4 cr
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.	MTT 102	Machining for Auto Applications	2 cr
	ASV 131	Automotive Electrical	4 cr
	ASV 132	Automotive Engines	4 cr
	WAF 105	Introduction to Welding Processes	2 cr
	Semester 2		15 Credits
	Computer Literacy		3 cr
	MEC 101	Modeling and Blueprint Reading	2 cr
	ASV 135	Facility Operations	3 cr
	ASV 256	Electrical and Electronic Systems	4 cr
	Humanities Elective		3 cr
	Semester 3		14 Credits
	Speech Elective		3 cr
	Math Elective		4 cr
	WAF 200	Layout/Fabrication for AMC (override)	3 cr
	ASV 277	Automotive Powertrain Systems	4 cr
	Semester 4		15-16 credits
	Physical Science Elective		4 cr
	Social Science Elective		3 cr
	ASV 270	Auto Test & Development	4 cr
ATT ~~ATC~~ 203	~~ATC~~ 203	Lightweight Materials in Transportation	3 cr
	Elective Credits	to reach a minimum of 60 credits	1-2 cr
	Total Program Credits		**60**
	Semester 5 – Optional Courses to meet MTA		9 – 10
	Social Science Elective		3 cr
	Humanities Elective		3 cr
	Physical Science Elective		3 – 4 cr
	Total Program Credits		69 - 70

Budget		START-UP COSTS	ONGOING COSTS
Specify program costs in the following areas, per academic year:	Faculty	$.	**Future FT Instructor**
	Training/Travel	.	.
	Materials/Resources	.	$600.00
	Facilities/Equipment	$358,644.50*	$2500.00
	Classified Faculty	.	.5 FTE
	TOTALS:	**$358,644.50*** ~~Department~~	**$ TBD**
	Potential Skilled Trades Equipment grant funding*		

Program Description for Catalog and Web site	In this program, students will be introduced to the test and data acquisition processes used in automotive testing. Students will learn to assemble and disassemble components for automotive testing. Diagnosis, maintenance, and proper operation of complex data acquisition equipment are essential. Students will learn to monitor and calibrate testing instruments. Job possibilities including working in a crash lab or other testing facility.

Program Information	Accreditation/Licensure – ASE Tests
	Advisors - TBD
	Advisory Committee – In Development
	Admission requirements -
	Articulation agreements - TBD
	Continuing eligibility requirements -

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
Develop and complete an automotive testing sequence used in automotive part defect mapping.	ASV 270 Departmental Exam	Fall 2018	All sections of ASV 270	All students
Acquire, analyze and interpret test data.	ASV 270 Departmental Exam	Fall 2018	All sections of ASV 270	All students
Recognize and use advanced, lightweight ATT ATC 203 automotive materials.	ATC 203 Departmental Exam	Fall 2018	All sections of ATC 203 ATT	All students

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.
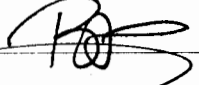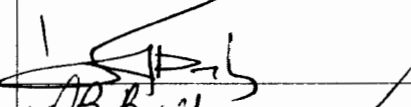
    Exams will be scored using a departmentally-developed rubric and an answer key

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

    75% of the students will score 70% or higher.

3. Indicate who will score and analyze the data.

    Departmental faculty will analyze the data.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	Allen Day	*[signature]*	01/08/2015
Dean	Brandon Tucker	*[signature]*	1/9/15
Vice President for Instruction ☐ Approved for Development ☐ Final Approval	William Abernethy	*[signature]*	2/23/15
President	Rose Bellanca	*[signature]*	2/23/15
Board Approval			3/24/15