

## Program Information Report

## Business &amp; Entrepreneurship

## Supply Chain Management (APSCM)

## Associate in Applied Science Degree

Program Effective Term: Fall 2024

High Demand Occupation High Skill Occupation High Wage Occupation

Program is also available online

This program emphasizes both the theoretical knowledge and practical skills needed to succeed in both customer-facing and behind-the-scenes jobs in any type of logistics setting as products move from point-of-origin to point-of consumption. The curriculum was developed with input from industry experts and topics include the supply chain ecosystem, warehousing, operations, transportation, purchasing, reverse logistics, retail, inventory management, and analytics. Students also learn about supplier relationship management and leadership/management skills. As part of the program, students will be ready to take the tests needed to receive their CLA (Certified Logistics Associate) and CLT (Certified Logistics Technician) industry certification.

**Articulation:**

Eastern Michigan University, BS and BBA degrees;

Wayne State University, BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site:

<https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php>

First Semester		(13 credits)
BMG 181	Introduction to Supply Chain Management	3
BMG 182	Warehousing and Logistics	3
ENG 111	Composition I	4
MTH 125 or	Everyday College Math	
MTH 160 or	Basic Statistics	
Elective	Math Elective(s) any math level 4 or higher course	3
Second Semester		(16 credits)
BMG 206	Retail Principles and Practices	3
BMG 226	Transportation and Logistics	3
BMG 228	Purchasing and Inventory Control	3
BMG 275	Business and Supply Chain Analytics	4
COM 101 or	Fundamentals of Speaking	
COM 102	Interpersonal Communication	3
Third Semester		(15 credits)
BMG 230	Principles of Management	3
BMG 273	Managing Operations	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s) 1	3
Elective	Arts/Human. Elective(s) 1	3
Fourth Semester		(16 credits)
BMG 205	Creating the Customer Experience	3
BMG 295	Supply Chain Field Studies	2
Elective	Nat. Sci. Lab Elective(s)	3
Elective	Soc. Sci. Elective(s) 2	3
Elective	Arts/Human. Elective(s) 2	3
Elective	MTA elective(s) to reach a minimum of 30 MTA credits.	2

Minimum Credits Required for the Program:

60

**WASHTENAW COMMUNITY COLLEGE**

**PROGRAM CHANGE FORM**

<b>Program Code: APSCM</b>	<b>Current Program Name: Supply Chain Management</b>	<b>Effective Term: Fall 2024</b>
<b>Division Code: BCT</b>	<b>Department: Business</b>	

**Directions:**

1. Attach the current program listing from the WCC catalog or website 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 CurricUNET, but should be submitted at the same time as the program change form.
4. If changes affect the program assessment plan or if program outcomes are updated, please submit a [Program Assessment Plan Change](#) form. These changes must be approved separately from the program change form and should be submitted at the same time. Current program assessment plans can be found on the [Curriculum and Assessment, Program Information page](#).

**Requested Changes:**

- |  |   |
|--|---|
| <input type="checkbox"/> Remove course(s): _                 | <input type="checkbox"/> Program outcomes (may also result from |
| <input type="checkbox"/> Add course(s): _____                | <input type="checkbox"/> removing or adding a course)*          |
| <input type="checkbox"/> Program title (new title is _____)  | <input type="checkbox"/> Program assessment plan*               |
| <input type="checkbox"/> Description                         | <input type="checkbox"/> Accreditation information              |
| <input type="checkbox"/> Advisors                            | <input checked="" type="checkbox"/> Other                       |
| <input type="checkbox"/> Program admission requirements      |   |
| <input type="checkbox"/> Continuing eligibility requirements |   |

Note: A change to the Award Type requires the submission of a new program proposal form and a separate

program inactivation form. Contact the Director of Curriculum & Assessment for more information.

**Show all changes on the catalog page you attach.**

\* Please submit a [Program Assessment Plan Change](#) form.

**Rationale for proposed changes:**

Current listing for writing electives, math electives and natural science electives are being changed to reflect a range of credits. Example: Writing Elective – 3-4, Math Elective 3-4, Natural Science Elective 3-5. Division is updating all degrees and certificates to align and have the same arts and sciences credit hours listed.




**Financial/staffing/equipment/space implications:**

None

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

Business

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	B. MCNEIL		10/12/23
Department Chair	DOUG WATERS		10-12-23
Division Dean/Administrator	Eva Samulski		10-12-23
<b>Please return completed form to the Office of Curriculum &amp; Assessment, SC 257</b> <b>or by e-mail to curriculum.assessment@wccnet.edu</b> <b>Once reviewed by the appropriate faculty committees we will secure the signature of the VPI.</b>			
Reviewer	Print Name	Signature	Date

Office of Curriculum &amp; Assessment Page 1 of 2 Revised 4/1/21

**WASHTENAW COMMUNITY COLLEGE****PROGRAM CHANGE FORM**

Curriculum Committee Chair			
Assessment Committee Chair			
Vice President for Instruction			

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Reviewed by C&amp;A Committees 11/9/23

Program layout updated due to course resequencing. Change made to facilitate data migration for new Course Leaf software. Per 2/1/24 C&A committees' meeting, resequencing with minimal effect to credit hours/per semester does not require C&A Committee review.

**Program Information Report****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

### Supply Chain Management (APSCM)

#### Associate in Applied Science Degree

Program Effective Term: **Fall 2018**

**High Demand Occupation High Skill Occupation High Wage Occupation**

**Program is also available online**

This program emphasizes both the theoretical knowledge and practical skills needed to succeed in both customer-facing and behind-the-scenes jobs in any type of logistics setting as products move from point-of-origin to point-of consumption. The curriculum was developed with input from industry experts and topics include the supply chain ecosystem, warehousing, operations, transportation, purchasing, reverse logistics, retail, inventory management, and analytics. Students also learn about supplier relationship management and leadership/management skills. As part of the program, students will be ready to take the tests needed to receive their CLA (Certified Logistics Associate) and CLT (Certified Logistics Technician) industry certification.

#### Articulation:

Eastern Michigan University, BBA degree;  
Wayne State University, BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site:  
<http://www.wccnet.edu/curriculum/articulation/levelone/colleges/>.

<b>First Semester</b>		<b>(15 credits)</b>
BMG 181	Introduction to Supply Chain Management	3
BMG 182	Warehousing and Logistics	3
BMG 205	Creating the Customer Experience	3
Elective	Soc. Sci. Elective(s) 1	3
Elective	Arts/Human. Elective(s) 2	3
<b>Second Semester</b>		<b>(16 credits)</b>
BMG 206	Retail Principles and Practices	3
BMG 226	Transportation and Logistics	3
Elective	Nat. Sci. Elective(s) 1	3
MTH 125 or	Everyday College Math	
MTH 160 or	Basic Statistics	
Elective	Math Elective(s) Any math level 4 or higher course	4
COM 101 or	Fundamentals of Speaking	
COM 102	Interpersonal Communication	3
<b>Third Semester</b>		<b>(14 credits)</b>
BMG 228	Purchasing and Inventory Control	3
BMG 273	Managing Operations	3
BMG 275	Business and Supply Chain Analytics	4
Elective	Nat. Sci. Lab Elective(s) 2	4
<b>Fourth Semester</b>		<b>(15 credits)</b>
BMG 230	Management Skills	3
BMG 295	Supply Chain Field Studies	2
Elective	Soc. Sci. Elective(s) 2	3
ENG 111	Composition I	4
Elective	Arts/Human. Elective(s) 2	3
<b>Minimum Credits Required for the Program:</b>		<b>60</b>

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: APSCM Program Name: Supply Chain Management Associate Degree Effective Term: Winter 2018  
 Division Code: BCT Department: Business

**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 type="checkbox"/> Remove course(s): _____	<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 checked="" 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 checked="" type="checkbox"/> Other <u>Assessment Plan</u>
<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:**  
 The program description and outcomes need to more accurately reflect the intended goals of the program. Current language is rather obtuse and not straightforward. The goal is for added clarity so students have clear expectations about what they will learn in the retail program.

**Financial/staffing/equipment/space implications:**  
 None

**List departments that have been consulted regarding their use of this program.**  
 None

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	Cheryl Byrne		12-19-2017
Department Chair	Julianne Davies		12/19/17
Division Dean/Administrator	Erin Samulski		12-19-17
Vice President for Instruction	Kimberly Hurons		2/16/18
President			

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

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## APSCM - Supply Chain Management Associate Degree

Current Sequencing		Proposed Sequencing	
<b>First Semester</b>	<b>Credits</b>	<b>First Semester</b>	<b>Credits</b>
BMG 181 Into to SCM	3	BMG 181 Into to SCM	3
BMG 182 Warehousing & Log	3	BMG 182 Warehousing & Log	3
BMG 205 Creating the CX	3	BMG 205 Creasting the CX	3
BMG 206 Retail	3	Social & Behavioral Science	3
Computer/Info Literacy	3	Arts & Humanities	3
	16		15
 <b>Second Semester</b>		 <b>Second Semester</b>	
BMG 226 Trans & Log	3	✓ BMG 206 Retail	3
BMG 228 Purchasing & Inv	3	✓ BMG 226 Trans & Log	3
Math	4	Natural Science	3
Speech	3	Math	4
Arts & Humanities	3	Speech Com 101 OR 102	3
	16		16
 <b>Third Semester</b>		 <b>Third Semester</b>	
BMG 230 Management Skills	3	✓ BMG 228 Purchasing & Inv	3
BMG 273 Managing Ops	3	✓ BMG 273 Managing Ops	3
BMG 275 Bus & SC Analytics	4	✓ BMG 275 Bus & SC Analytics	4
Natural Science (Lab)	4	Natural Science (Lab)	4
	14		14
 <b>Fourth Semester</b>		 <b>Fourth Semester</b>	
BMG 295 Field Studies	2	✓ BMG 230 Management Skills	3
Writing	4	✓ BMG 295 Field Studies	2
Social & Behavioral Science	3	English Composition	4
Electives to reach 60	6	Social & Behavioral Science	3
	15	Arts & Humanities	3
	60		15
			60

## Supply Chain Management (APSCM) Associate in Applied Science Degree

Requirements – See revisions based on General Education Changes

### First Semester

Class	Title	Credits
<u>BMG 181</u>	Introduction to Supply Chain Management	3
<u>BMG 182</u>	Warehousing and Logistics	3
<u>BMG 205</u>	Creating the Customer Experience	3
<u>BMG 206</u>	Retail Principles and Practices	3
<u>Elective(s)</u>	<u>Computer and Information Literacy</u>	3
Total		15

### Second Semester

Class	Title	Credits
<u>BMG 226</u>	Transportation and Logistics	3
<u>BMG 228</u>	Purchasing and Inventory Control	3
<u>Elective(s)</u>	<u>Arts and Humanities</u>	3
<u>MTH 125</u>	or Everyday College Math	
<u>MTH 160</u>	or Basic Statistics	
	Math Elective(s) Any math level 4 or higher course	4
<u>Elective(s)</u>	<u>Speech</u>	3
Total		16

### Third Semester

Class	Title	Credits
<u>BMG 230</u>	Management Skills	3
<u>BMG 273</u>	Managing Operations	3
<u>BMG 275</u>	Business and Supply Chain Analytics	4
<u>Elective(s)</u>	<u>Natural Sciences*</u>	4
Total		14

### Fourth Semester

Class	Title	Credits
<u>BMG 295</u>	Supply Chain Field Studies	2
<u>Elective(s)</u>	<u>Social and Behavioral Science</u>	3
<u>Elective(s)</u>	<u>Writing</u>	4
	Electives to reach a minimum of 60 credits	6
Total		15
Total Credits Required		60



## Proposed Description

This program emphasizes both the theoretical knowledge and the practical skills needed to succeed in both customer-facing and behind-the-scenes jobs in any type of logistics setting as products move from point-of-origin to point-of-consumption. The curriculum was developed with input from industry experts and topics include the supply chain ecosystem, warehousing, operations, transportation, purchasing, reverse logistics, retail, inventory management, and analytics. Students also learn about supplier relationship management and leadership/management skills. As part of the program, students will be ready to take the tests needed to receive their CLA (Certified Logistics Associate) and CLT (Certified Logistics Technician) industry certifications.

## Proposed Assessment Plan

Program outcome to be assessed	Assessment tool	When assessment will take place	Courses/Other Populations	Number of students to be assessed
Research and explain, in detail, the role and contribution made by each entity in the supply chain for a retail-related product or products (raw material to manufacturer to distributor to retail to end-customer)	BMG 295 Report	Winter 2021	Students enrolled in BMG 295 (Capstone) course	All
Compare and contrast the supply chains of different and diverse retail products	BMG 295 Report	Winter 2021	Students enrolled in BMG 295 (Capstone) course	All
Identify supply chain concepts and practices that must take place to get the right products and services into the right customer's hands in the right quantity at the right time and in the right condition	Departmentally developed Supply Chain test	Winter 2021	Students enrolled in BMG 295 (Capstone) course	All

## Proposed Scoring and Analysis Plan

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

The BMG 295 Capstone report will be scored using a departmentally developed rubric. The departmentally developed test will be auto-scored using the WCC LMS.

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

75% of students who score an average of 10.5 or better out of 15 points on each outcome as well as the whole report

75% of students who score 70% or better on the departmentally developed test

**3. Indicate who will score and analyze the data**

The BMG 295 Capstone report will be scored by selected members of the School of Business and Entrepreneurship Studies Advisory Board (at least 10 members). The program lead will analyze the data.

The departmentally developed test will be auto-scored using the WCC LMS. The program lead will analyze the data.

**4. Explain how and when the assessment results will be used for program improvement**

After the program lead analyzes the data, that person will prepare a Program Assessment Report summarizing the findings and recommending changes and enhancements to the program. This report will be shared with the Dean, the Department Chair, and other department members for their input and feedback prior to submitting the report to the Curriculum and Assessment Committee.

## Program Information Report

### School of Business and Entrepreneurial Studies

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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**

**Retail Management (APRM)  
Associate in Applied Science Degree**

**Program Effective Term: Fall 2015**

**High Demand Occupation High Skill Occupation High Wage Occupation**

**Program is also available online**

This program prepares students to be knowledgeable, capable and enthusiastic employees who can handle both customer-facing and behind-the-scenes jobs in a retail setting. These retail jobs can be divided into four main areas: customer relations, store upkeep, product handling and administration. Students who complete this associates degree will have had exposure to all four of these areas, and they will gain the skills and knowledge to project a can-do, professional and results-focused attitude.

Students will take restricted electives toward completing a certificate as part of the program requirement in one of the following areas (9-16 credits): Accounting for Business Certificate, Human Resource Management (HRM) Certificate, Business Sales and Marketing Certificate, Entrepreneurship and Innovation Certificate, Management Advanced Certificate or a Certificate or Degree in any occupational/technical area

BMG 205	Creating the Customer Experience	3
BMG 206	Retail Principles and Practices	3
	Computer Lit. Elective(s)	3
	Writing Elective(s)	3-4
	Restricted Elective(s) 1: Select a course toward completion of a certificate.	3
BMG 228	Purchasing and Inventory Control	3
	Arts/Human. Elective(s)	3
MTH 125 or MTH 160 or	Everyday College Math	
	Basic Statistics	
	Math Elective(s) Any math level 4 or higher course	4
	Speech Elective(s)	3
	Restricted Elective(s) 2: Select a course toward completion of a certificate.	3
BMG 230	Management Skills	3
	Nat. Sci. Elective(s)*	3
	Soc. Sci. Elective(s)	3
	Restricted Elective(s) 3: Select a course toward completion of a certificate.	3
	Restricted Elective(s) 4: Select a course toward completion of a certificate.	3
BMG 273	Managing Operations	3
BMG 275	Business and Supply Chain Analytics	4
BMG 295	Supply Chain Field Studies	2
	Elective(s) to reach a minimum of 60 credits.	6

**Minimum Credits Required for the Program:**

**61**

**Notes:**

*\*Students who plan to transfer should elect a lab-based Natural Science course. They should also meet with an advisor to ensure MACRAO requirements are met.*

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: APRM Program Name: Retail Management AAS

Effective Term: F2015

Division Code: BCT Department: School of Business & Entrepreneurial Studies

**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.
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**Requested Changes:**

- |  |   |
|--|---|
| <input type="checkbox"/> Review  | <input type="checkbox"/> Program admission requirements   |
| <input type="checkbox"/> Remove course(s): BMG 211 Merchandising & Inventory Control | <input type="checkbox"/> Continuing eligibility requirements  |
| <input type="checkbox"/> Add course(s): BMG 228 Purchasing & Inventory Control       | <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   | <b>XX Other: Changes to Course Curriculum—better organized and more student centered (course change submitted using CurricUNET)</b>                       |
| <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:**

Changes reflect:

- changes to the Retail & Business Operations Certificate to refocus learning
- changes to how the CTRBO can be combined with other certificates to achieve credits for AAS degree

**Financial/staffing/equipment/space implications:**

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

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	Cheryl Byrne		Nov 12, 2014
Department Chair	COLETTE YOUNG		11/14/14
Division Dean/Administrator	Kimberly Huron		11/14/14
Vice President for Instruction			12/9/14
President			

Do not write in shaded area. Entered in: Banner 2/11/15 C&A Database 2/11/15 Log File MMO Board Approval \_\_\_\_\_

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to [sjohn@wccnet.edu](mailto:sjohn@wccnet.edu) for posting on the website.

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## Retail Management (APRM)

### Description

This program prepares students to be knowledgeable, capable and enthusiastic employees who can handle both customer-facing and behind-the-scenes jobs in a retail setting. These retail jobs can be divided into four main areas: customer relations, store upkeep, product handling and administration. Students who complete this associates degree will have had exposure to all four of these areas, and they will gain the skills and knowledge to project a can-do, professional and results-focused attitude.

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### Contact Information

Division

Business/Computer Technologies

Department

Business Department

Advisors

Cheryl Byrne, PhD

### Requirements

First Semester

Class	Title	Credits
<u>BMG 205</u>	Creating the Customer Experience	3
<u>BMG 206</u>	Retail Principles and Practices	3
<u>Elective(s)</u>	<u>Computer and Information Literacy</u>	3
<u>Elective(s)</u>	<u>Writing</u>	3 - 4
	Restricted Elective(s) 1: Select a course toward completion of a certificate.	3
Total		15 - 16

Second Semester

<b>Class</b>	<b>Title</b>	<b>Credits</b>
<del>BMG 211</del>	<del>Merchandising and Inventory Management</del>	3
BMG 228	Purchasing and Inventory Control	3
<u>Elective(s)</u>	<u>Arts and Humanities</u>	3
<u>MTH 125</u>	or Everyday College Math	
<u>MTH 160</u>	or Basic Statistics	
	Math Elective(s) Any math level 4 or higher course	4
<u>Elective(s)</u>	<u>Speech</u>	3
	Restricted Elective(s) 2: Select a course toward completion of a certificate.	3
Total		16

Third Semester

<b>Class</b>	<b>Title</b>	<b>Credits</b>
BMG 230	Management Skills	3
<u>Elective(s)</u>	<u>Natural Sciences*</u>	3
<u>Elective(s)</u>	<u>Social and Behavioral Science</u>	3
	Restricted Elective(s) 3: Select a course toward completion of a certificate.	3
	Restricted Elective(s) 4: Select a course toward completion of a certificate.	3
Total		15

Fourth Semester

<b>Class</b>	<b>Title</b>	<b>Credits</b>
	Elective(s) to reach a minimum of 60 credits.	6
BMG 273	Managing Operations	3
BMG 275	Business and Supply Chain Analytics	4
BMG 295	Supply Chain Field Studies	2
Total		15
Total Credits Required		
61 - 62		

Footnotes

\*Students who plan to transfer should elect a lab-based Natural Science course. They should also meet with an advisor to ensure MACRAO requirements are met.

## **Program Information Report**

### **School of Business and Entrepreneurial Studies**

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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**

**Supply Chain Management (APSCM)**

**Associate in Applied Science Degree**

**Program Effective Term: Fall 2015**

**High Demand Occupation High Skill Occupation High Wage Occupation**

**Program is also available online**

This program prepares students to be knowledgeable, capable and enthusiastic employees who can effectively perform in a supply chain environment. Students will learn the principles and practices of managing, marketing, selling, promoting and distributing retail goods and services. They will also learn how to align supply chain strategies with corporate goals to coordinate suppliers, manufacturers, distributors and retailers, ensuring products and services are available to the final consumer in a timely and cost-effective manner while meeting customer service demands. As part of the program, students will be ready to take the tests needed to receive their CLA (Certified Logistics Associate) and CLT (Certified Logistics Technician) industry certification.

BMG 181	Introduction to Supply Chain Management	3
BMG 182	Warehousing and Logistics	3
BMG 205	Creating the Customer Experience	3
BMG 206	Retail Principles and Practices	3
Elective	Computer Lit. Elective(s)	3

BMG 226	Transportation and Logistics	3
BMG 228	Purchasing and Inventory Control	3
Elective	Arts/Human. Elective(s)	3
MTH 125 or	Everyday College Math	
MTH 160 or	Basic Statistics	
Elective	Math Elective(s) Any math level 4 or higher course	4
Elective	Speech Elective(s)	3

BMG 230	Management Skills	3
BMG 273	Managing Operations	3
BMG 275	Business and Supply Chain Analytics	4
Elective	Nat. Sci. Elective(s)*	4

BMG 295	Supply Chain Field Studies	2
Elective	Soc. Sci. Elective(s)	3
Elective	Writing Elective(s)	4
Elective	Electives to reach a minimum of 60 credits	6

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

**Notes:**

*\*Select a lab-based course. Students who plan to transfer should meet with an advisor to ensure MACRAO requirements are met.*

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: APSCM Program Name: Supply Chain Management (Associate)

Effective Term: Fall 2015

Division Code: BCT Department: Business

**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 type="checkbox"/> Remove course(s): _____   | <input type="checkbox"/> Continuing eligibility requirements  |
| XX Add course(s): BMG 181 Introduction to Supply Chain Management and BMG 182 Warehousing and Logistics and BMG 228 Purchasing and Inventory Control | <input type="checkbox"/> Program outcomes   |
| <input type="checkbox"/> Program title (title was _____)   | <input type="checkbox"/> Accreditation information  |
| <input checked="" 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   | Other: Inactivate BMG 180, BMG 211, and BMG 227   |
| <input type="checkbox"/> Advisors  | Fall 2015   |
| <input type="checkbox"/> Articulation information  |   |

Show all changes on the attached page from the catalog.

**Rationale for proposed changes or discontinuation:**

- Incorporate preparation for industry certifications
- Certified Logistics Associate (CLA)
  - Certified Logistics Technician (CLT)
  - Refocus student learning

**Financial/staffing/equipment/space implications:**

NONE. Assessment Center already an approved site.

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

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	Cheryl S. Byrne, Phd		Nov 12, 2014
Department Chair	Collette Young		11/12/2014
Division Dean/Administrator	Kimberly Huns		11/14/14
Vice President for Instruction			12/9/14
President			

Do not write in shaded area. Entered in: Banner 2/6/15 & A Database 2/6/15 Log File 2/6/15 Board Approval \_\_\_\_\_

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to [sjohn@wccnet.edu](mailto:sjohn@wccnet.edu) for posting on the website.

logged 11/14/14 sjf  
Office of Curriculum & Assessment

# Supply Chain Management (APSCM)

Associate in Applied Science Degree

## Description

This program prepares students to be knowledgeable, capable and enthusiastic employees who can effectively perform in a supply chain environment. Students will learn the principles and practices of managing, marketing, selling, promoting and distributing retail goods and services. They will also learn how to align supply chain strategies with corporate goals to coordinate suppliers, manufacturers, distributors and retailers, ensuring products and services are available to the final consumer in a timely and cost-effective manner while meeting customer service demands. ~~Finally, students will learn how to employ various analytical techniques used in managerial decision-making when designing a supply chain network, managing and improving that network and resolving supply chain-related issues.~~ As part of the program, students will be ready to take the tests needed to receive their CLA (Certified Logistics Associate) and CLT (Certified Logistics Technician) industry certifications. ✓

## Contact Information

Division  
 Business/Computer Technologies  
 Department  
 Business Department  
 Advisors  
Cheryl Byrne

## Requirements

First Semester

Class	Title	Credits
<del>BMG 180</del>	<del>Introduction to Logistics and Supply Chain Management</del>	<del>3</del> - Inactivate Winter 2015
BMG 181	Introduction to Logistics	3
BMG 182	Warehousing and Logistics	3
BMG 205	<i>Creating the Customer Experience</i>	3
BMG 206	Retail Principles and Practices	3
Elective(s)	<u>Computer and Information Literacy</u>	3
Total	<del>15</del> <del>18</del> 15	

? Writing

x3

Second Semester

Class	Title	Credits
<del>BMG 211</del>	<del>Merchandising and Inventory Management</del>	3
BMG 228	Purchasing and Inventory Control	3
BMG 226	Transportation Management and Logistics	3
Elective(s)	Arts and Humanities	3
MTH 125	or Everyday College Math	
MTH 160	or Basic Statistics or Math Elective(s) Any math level 4 or higher course	4
Elective(s)	Speech	3
Total		16 16

Third Semester

Class	Title	Credits
<del>BMG 227</del>	<del>Purchasing and Supply Management</del>	3
BMG 230	Management Skills	3
BMG 273	Managing Operations	3
BMG 275	Business and Supply Chain Analytics	4
Elective(s)	Natural Sciences*	4
Total		17-14

Fourth Semester

Class	Title	Credits
BMG 295	Supply Chain Field Studies	2
Elective(s)	Writing	4
	Social and Behavioral Science	3
	Electives to reach a minimum of 60 credits	6
Total		12

Total Credits Required  
60

Footnotes

\*Select a lab-based course. Students who plan to transfer should meet with an advisor to ensure MACRAO requirements are met.

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code:  
APSCM

Program Name: Supply Chain Management

Effective Term: Fall 2013

Division Code: BUSD

Department: Business

**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 checked="" type="checkbox"/> Program admission requirements <i>not needed make change on footnote</i>  |
| <input type="checkbox"/> Remove course(s): _____         | <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:**

Math requirement was changed for courses, but not the program - change to academic math level 4 or higher or MTH 125 or MTH 160.

**Financial/staffing/equipment/space implications:**

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

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	Cheryl Byrne		12-16-2012
Department Chair	Colette Young		12/17/12
Division Dean/Administrator	Rosemary Wilson		12/18/12
Vice President for Instruction	Stuart Blacklaw		1/31/13

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Please submit completed form to the Office of Curriculum and Assessment.

*In June 2/6/13*

*logged 12/20/12 sfg*



**Program Information Report**

**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.

**Supply Chain Management (APSCM)**

**Associate in Applied Science Degree**

**Program Effective Term: Fall 2013**

This program prepares students to be knowledgeable, capable and enthusiastic employees who can effectively perform in a supply chain environment. Students will learn the principles and practices of managing, marketing, selling, promoting and distributing retail goods and services. They will also learn how to align supply chain strategies with corporate goals to coordinate suppliers, manufacturers, distributors and retailers, ensuring products and services are available to the final consumer in a timely and cost-effective manner while meeting customer service demands. Finally, students will learn how to employ various analytical techniques used in managerial decision-making when designing a supply chain network, managing and improving that network and resolving supply chain-related issues.

<b>First Semester</b>		<b>(16 credits)</b>
BMG 180	Introduction to Logistics and Supply Chain Management	3
BMG 205	Creating the Customer Experience	3
BMG 206	Retail Principles and Practices	3
	Computer Lit. Elective(s)	3
	Writing Elective(s)	4
<b>Second Semester</b>		<b>(16 credits)</b>
BMG 211	Merchandising and Inventory Management	3
BMG 226	Transportation Management	3
	Arts/Human. Elective(s)	3
MTH 125 or	Everyday College Math	
MTH 160 or	Basic Statistics	
	Math Elective(s) Any math level 4 or higher course	4
	Speech Elective(s)	3
<b>Third Semester</b>		<b>(17 credits)</b>
BMG 227	Purchasing and Supply Management	3
BMG 230	Management Skills	3
BMG 273	Managing Operations	3
BMG 275	Business and Supply Chain Analytics	4
	Nat. Sci. Elective(s)*	4
<b>Fourth Semester</b>		<b>(11 credits)</b>
BMG 295	Supply Chain Field Studies	2
	Soc. Sci. Elective(s)	3
	Electives to reach a minimum of 60 credits	6

**Program Information Report**

**Minimum Credits Required for the Program:**

**60**

**Notes:**

*\*Select a lab-based course. Students who plan to transfer should meet with an advisor to ensure MACRAO requirements are met.*



# Supply Chain Management (APSCM)

Associate in Applied Science Degree

- -
- -
- [2012 - 2013](#)

## Description

This program prepares students to be knowledgeable, capable and enthusiastic employees who can effectively perform in a supply chain environment. Students will learn the principles and practices of managing, marketing, selling, promoting and distributing retail goods and services. They will also learn how to align supply chain strategies with corporate goals to coordinate suppliers, manufacturers, distributors and retailers, ensuring products and services are available to the final consumer in a timely and cost-effective manner while meeting customer service demands. Finally, students will learn how to employ various analytical techniques used in managerial decision-making when designing a supply chain network, managing and improving that network and resolving supply chain-related issues.

## Contact Information

Division  
Business/Computer Technologies  
Department  
Business Department  
Advisors  
[Cheryl Byrne](#)



## Requirements

### First Semester

Class	Title	Credits
<a href="#">BMG 180</a>	Introduction to Logistics and Supply Chain Management	3
<a href="#">BMG 205</a>	Creating the Customer Experience	3
<a href="#">BMG 206</a>	Retail Principles and Practices	3
Elective(s)	<a href="#">Computer and Information Literacy</a>	3
Elective(s)	<a href="#">Writing</a>	4
Total		16

### Second Semester

Class	Title	Credits
<a href="#">BMG 211</a>	Merchandising and Inventory Management	3



<u>BMG 226</u>	Transportation Management	3
<u>Elective(s)</u>	<u>Arts and Humanities</u>	3
	← <u>Math Elective(s)</u> Any math level 4 or higher course	4
<u>Elective(s)</u>	<u>Speech</u>	3
<b>Total</b>		<b>16</b>

OR MATH 125 OR MATH 160

**Third Semester**

<b>Class</b>	<b>Title</b>	<b>Credits</b>
<u>BMG 227</u>	Purchasing and Supply Management	3
<u>BMG 230</u>	Management Skills	3
<u>BMG 273</u>	Managing Operations	3
<u>BMG 275</u>	Business and Supply Chain Analytics	4
<u>Elective(s)</u>	<u>Natural Sciences**</u>	4
<b>Total</b>		<b>17</b>

**Fourth Semester**

<b>Class</b>	<b>Title</b>	<b>Credits</b>
<u>BMG 295</u>	Supply Chain Field Studies	2
<u>Elective(s)</u>	<u>Social and Behavioral Science</u>	3
	Electives to reach a minimum of 60 credits	6
<b>Total</b>		<b>11</b>
<b>Total Credits Required</b>		
60		

**Footnotes**

or higher MTH  
 ← or math 125 or MTH 160

\*Academic Math Level 4 is required to enroll in BMG 275.

\*\*Select a lab-based course. Students who plan to transfer should meet with an advisor to ensure MACRAO requirements are met.

**Program Requirements:**

Level I Prereq: Academic Reading and Writing Levels of 6; Academic Math Level 4 or MTH 125 or MTH 160, minimum grade "C"; CIS 100 or CIS 110.

**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><b>Program Name:</b></p> <p><b>Division and Department:</b></p> <p><b>Type of Award:</b></p> <p><b>Effective Term/Year:</b></p> <p><b>Initiator:</b></p>	<p><u>Supply Chain Management (AAS)</u></p> <p><u>Computer and Business Technologies/ School of Business and Entrepreneurial Studies</u></p> <p><input type="checkbox"/> AA <input type="checkbox"/> AS <input checked="" type="checkbox"/> <b>XXXX AAS</b>          Cert. Adv. Cert. <input type="checkbox"/> Post-Assoc. Cert. <input type="checkbox"/> Cert. of Comp.</p> <p><u>Fall 2012</u></p> <p><u>Cheryl Byrne, PhD</u></p>	<p><b>Program Code:</b> <b>APSCM</b></p> <p><b>CIP Code:</b> <b>52.0103</b></p>
<p><b>Program Features</b>          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 a series of courses that give students the ability to be knowledgeable, capable, and enthusiastic employees who can effectively perform in a supply chain setting. This ability will ultimately result in financial success for the company and career success for the students. The students will gain skills and knowledge to project a can-do and results-focused attitude.</p> <p>The standard college-level reading and writing levels are required. Our conservative estimate is that 15 students will be enrolled by the end of year 1 and 30 by the end of year 2.</p> <p>This program dovetails with the Retail and Business Operations certificate offered by the School of Business and Entrepreneurial Studies.</p>	
<p><b>Need</b>          Need for the program with evidence to support the stated need.</p>	<p>Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion while maintaining the service level customers demand. Automotive and other manufacturing entities, as well as the supporting industries depend on supply chain management. It is also the "backbone" of successful retailers such as Walmart, Costco, and Target.</p> <p>It is a growing area of business showing above average job growth in the future. Median earnings for positions in supply chain, and its related field of logistics, \$66k, is also above average. Job opportunities can be obtained with experience a limited coursework (certificate).</p> <p>WCC faculty began working on this program based on feedback from their Advisory Board. Members of the Advisory Board have also indicated their willingness to develop internships within their organizations and work with us to expand an internship program to other organizations.</p>	

*12/19/11  
 logged 10/12/11 sjv  
 Office of Curriculum & Assessment*

<b>Program Outcomes/Assessment</b>	<u>Outcomes</u>	<u>Assessment method</u>
<p>State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program.</p> <p>Include assessment methods that will be used to determine the effectiveness of the program.</p>	<ol style="list-style-type: none"> <li>1. Identify and apply the principles and practices of managing, marketing, selling, promoting, and distributing retail goods and services.</li> <li>2. Identify and apply the principles and practices of aligning supply chain strategies with corporate goals to coordinate suppliers, manufacturers, distributors and retailers, ensuring products and services are available to the final consumer in a timely and cost-effective manner while meeting customer service demands.</li> <li>3. Employ various analytical techniques used in managerial decision-making when designing a supply chain network, managing and improving that network, and resolving supply chain-related issues.</li> </ol>	<ol style="list-style-type: none"> <li>1. BMG 295 Capstone Report</li> <li>2. BMG 295 Capstone Report</li> <li>3. BMG 295 Capstone Report</li> </ol>

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to [sjohn@wccnet.edu](mailto:sjohn@wccnet.edu) for posting on the website.

**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.

**Gen Ed (21 - 24 credits)**

- Writing 3 - 4 credits
- Speech 3 credits
- MATH 3 - 4 credits
- NATURAL SCIENCE W/LAB 3 - 4 credit
- SOC SCI 3 credits
- ARTS/HUM 3 credits
- COMP LIT 3 credits

**Major/Area Requirements (36 credits)**

- **Retail & Business Operations Certificate 15 credits**
  - BMG 205 Creating the Customer Experience 3 credits
  - BMG 206 Retail Principles and Practices 3 credits
  - BMG 273 Managing Operations 3 credits
  - BMG 211 Merchandising & Inventory Control \* 2 credits
  - BMG 275 Business and Supply Chain Analytics \* 4 credits
- **Supply Chain Operations Certificate 15 credits**
  - BMG 170 Introduction to Logistics & SCM 3 credits
  - BMG 226 Transportation Management 3 credits
  - BMG 227 Purchasing & Supply Management 3 credits
  - BMG 211 Merchandising & Inventory Control \* 2 credits
  - BMG 275 Business and Supply Chain Analytics \* 4 credits
- \*will apply to both certificates but only counted once in credit hours
- **Associate Degree Requirements 5 credits**
  - BMG 230 Management Skills 3 credits
  - BMG 295 Field Studies 2 credits
- **Electives to reach minimum of 60 credits: credits**

**TOTAL 60 Credits**

Footnote: Students who intend to transfer to another academic institution should meet with a school counselor to ensure MACRAO requirements are met.

<b>Budget</b> Specify program costs in the following areas, per academic year:		<b>START-UP COSTS</b>	<b>ONGOING COSTS</b>
	<b>Faculty</b>	\$ .	\$ .
	<b>Training/Travel</b>	.	.
	<b>Materials/Resources</b>	.	.
	<b>Facilities/Equipment</b>	.	.
	<b>Other</b>	.	.
	<b>TOTALS:</b>	\$ 00 .	\$ 00 .
<b>Program Description for Catalog and Web site</b>	This program prepares students to be knowledgeable, capable, and enthusiastic employees who can who can effectively perform in a supply chain environment. Students will learn the principles and practices of managing, marketing, selling, promoting, and distributing retail goods and services. They will also learn how to align supply chain strategies with corporate goals to coordinate suppliers, manufacturers, distributors and retailers, ensuring products and services are available to the final consumer in a timely and cost-effective manner while meeting customer service demands. Finally, students will learn how to employ various analytical techniques used in managerial decision-making when designing a supply chain network, managing and improving that network, and resolving supply chain-related issues.		
<b>Program Information</b>	<b>Accreditation/Licensure - none</b>  <b>Advisors – Cheryl S. Byrne, PhD</b>  <b>Advisory Committee – School of Business and Entrepreneurial Studies Advisory Board</b>  <b>Admission requirements – College Level Reading and Writing</b>  <b>Articulation agreements - TBD</b>  <b>Continuing eligibility requirements - NA</b>		

**Assessment plan:**

<b>Program outcomes to be assessed</b>	<b>Assessment tool</b>	<b>When assessment will take place</b>	<b>Courses/other populations</b>	<b>Number students to be assessed</b>
Apply the process of uncovering and fulfilling internal and external customer needs.	Report	Fall 2016	Students enrolled in BMG 295 (Capstone) and completing the degree during the assessment semester	All
Apply the principles of communication and relationship management when interacting with internal and external customers	Report	Fall 2016	Students enrolled in BMG 295 (Capstone) and completing the degree during the assessment semester	All
Identify and apply the techniques used to make and communicate decisions related to strategy, profits, productivity, projects, and processes when managing the operations aspect of a business unit.	Report	Fall 2016	Students enrolled in BMG 295 (Capstone) and completing the degree during the assessment semester	All
Identify and apply the principles and practices of managing, marketing, selling, promoting, and distributing retail goods and services.	Report	Fall 2016	Students enrolled in BMG 295 (Capstone) and completing the degree during the assessment semester	All

**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.

The Capstone report will be scored using a departmentally developed rubric.

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

75% of students who score an average of 10.5 or better on the BMG 295 Capstone Report

3. Indicate who will score and analyze the data.

The Capstone report will be scored by selected members of the School of Business and Entrepreneurial Studies Advisory Board. The program lead will analyze the data.

4. Explain how and when the assessment results will be used for program improvement.

After the program lead analyzes the data, that person will prepare a report summarizing the findings and recommending changes and enhancements to the program. This report will be shared with the Dean, the other departmental members, and the School of Business and Entrepreneurial Studies Advisory Board.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	CATHERINE M. YOUNG	<i>Catherine M. Young</i>	10/10/11
Dean	ROSEMARY WILSON	<i>Rosemary Wilson</i>	10/12/11
Vice President for Instruction <input type="checkbox"/> Approved for Development <input type="checkbox"/> Final Approval	STUART BURKETT	<i>Stuart Burkett</i>	11-1-11
President	RISE B. BELLANCA	<i>Rise Bellanca</i>	11-14-11
Board Approval			4/24/12

Program Information Report

**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, 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 and General Education requirements.

**Business**

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

**Supply Chain Management (APSCM)**

**Associate in Applied Science Degree**

**Program Effective Term: Fall 2012**

This program prepares students to be knowledgeable, capable and enthusiastic employees who can effectively perform in a supply chain environment. Students will learn the principles and practices of managing, marketing, selling, promoting and distributing retail goods and services. They will also learn how to align supply chain strategies with corporate goals to coordinate suppliers, manufacturers, distributors and retailers, ensuring products and services are available to the final consumer in a timely and cost-effective manner while meeting customer service demands. Finally, students will learn how to employ various analytical techniques used in managerial decision-making when designing a supply chain network, managing and improving that network and resolving supply chain-related issues.

**General Education Requirements (21 credits)**

Writing	Elective(s)	3-4
Speech	Elective(s)	3
Math	Elective(s)*	3-4
Nat. Sci.	Elective(s)**	3-4
Soc. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3
Computer Lit.	Elective(s)	3

**Major/Area Requirements (60 credits)**

	Complete the Retail and Business Operations Certificate (15 credits)	
BMG 205	Creating the Customer Experience	3
BMG 206	Retail Principles and Practices	3
BMG 211	Merchandising and Inventory Management***	2
BMG 273	Managing Operations	3
BMG 275	Business and Supply Chain Analytics***	4
	Complete the Supply Chain Operations Certificate (15 credits)	
BMG 170	Introduction to International Business	3
BMG 211	Merchandising and Inventory Management***	2
BMG 226	Transportation Management	3
BMG 227	Purchasing and Supply Management	3
BMG 275	Business and Supply Chain Analytics***	4

**Requirements (9 credits)**

BMG 230	Management Skills	3
BMG 295	Capstone: Retail Management	1
	Electives to reach a minimum of 60 credits.	5

## Program Information Report

**Minimum Credits Required for the Program:**

**60**

**Notes:**

*\*Academic Math Level 4 is required to enroll in BMG 275.*

*\*\*Select a lab-based course. Students who plan to transfer should meet with an advisor to ensure MACRAO requirements are met.*

*\*\*\*Will apply to both certificates but only counted once in credit hours.*