

Cecil College Academic Program Review



Supply Chain
Management
Spring 2015

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Executive Summary

The Supply Chain Management degree program first appeared in the 2011-2013 Cecil College Catalog. Over the years, the College periodically reviewed its academic offerings for accuracy and relevance. As a result, the Supply Chain Management degree was introduced as part of the Business Degree Program and there is an articulation agreement in place with the University of Delaware. Students satisfactorily completing the Associate of Applied Science – Supply Chain Management degree at Cecil College are guaranteed admission to the University of Delaware Supply Chain Management program. As part of this review and taking into account the changes required based on the State of Maryland's College Readiness and Completion Act of 2013 (also known as SB 740), the course credit requirements have been reduced from the required 70 to 60 credits. The following courses were eliminated as requirements for the degree at Cecil College: BIO or ENV Science Elective (3 credits); EGL 102 - Composition and Literature (3 Credits); CSC 103 – Operating Systems (3 credits); and PSY Elective (3 credits). In order to attain the 60 credits, ELEC (2 credits) were added. As part of the articulation agreement with the Lerner School of Business at the University of Delaware, students must also complete the following courses: PSY – Psychology Elective (3 credits) and BIO or ENV Science Elective (3 credits). These significant changes are viewed as critical to the future success of this degree program.

Cecil College's Supply Chain Management degree program supports the mission of the College as well as the initiatives outlined in the Strategic Plan by providing a wide range of comprehensive coursework in a variety of business coursework that fosters the development of knowledge, skills, and abilities that are essential for students to prepare for workforce entry or advancement and personal enrichment.

The Strategic Plan focuses on four strategic initiatives:

1. Emphasis on student completion
2. Increasing opportunities for Bachelors and Higher Degree Programs in Cecil County
3. Creating workforce opportunities related to federal government expansion, and
4. Becoming a regional leader in incorporating innovative technology

The establishment of the Business Advisory Group is considered critical to success of the overall Business Program. Membership is comprised of the following:

Continuing Education – Member
Business Faculty – Member
Current Student – Member
Recent Graduate – Member
Private/Public Industry – Member (3-5)

The Supply Chain Management degree program should be retained. This degree program should be reviewed during the spring 2017 to determine if sufficient enrollments support this degree program.

1.0 Program Description

The Associate of Applied Science, Supply Chain Management degree program is specifically designed for those individuals who are working or desire to pursue a career in the field of supply chain management.

The Associate of Applied Science, Supply Chain Management degree requires the completion of 60 credits. As part of the articulation agreement with the Lerner School of Business at the University of Delaware, students must also complete the following courses: PSY – Psychology Elective (3 credits) and BIO or ENV Science Elective (3 credits).

1.1 Program History

1.1.1 Provide brief history of the program.

The Supply Chain Management degree program first appeared in the 2011-2013 Cecil College Catalog. Over the years, the College periodically reviewed its academic offerings for accuracy and relevance. As a result, the Supply Chain Management degree was introduced as part of the Business Degree Program and there is an articulation agreement in place with the University of Delaware. Students satisfactorily completing the Associate of Applied Science – Supply Chain Management degree at Cecil College are guaranteed admission to the University of Delaware Supply Chain Management program. As part of this review and taking into account the changes required based on the State of Maryland's College Readiness and Completion Act of 2013 (also known as SB 740), the course credit requirements have been reduced from the required 70 to 60 credits. The following courses were eliminated as requirements for the degree at Cecil College: BIO or ENV Science Elective (3 credits); EGL 102 - Composition and Literature (3 Credits); CSC 103 – Operating Systems (3 credits); and PSY Elective (3 credits). In order to attain the 60 credits, ELEC (2 credits) were added. As part of the articulation agreement with the Lerner School of Business at the University of Delaware, students must also complete the following courses: PSY – Psychology Elective (3 credits) and BIO or ENV Science Elective (3 credits). These significant changes are viewed as critical to the future success of this degree program.

As a result of a review conducted of the General Studies Degree program during the fall 2002 and approved by the Academic Affairs Committee and the Academic Senate in April 2003, Cecil College defines **general education** as the portion of the curriculum devoted to the development of the skills, knowledge, and abilities desired of all students regardless of chosen majors. The general education program provides all students with writing, speaking, reading, critical thinking, computing, and information literacy and knowledge to function as educated citizens in a complex world.

Cecil College's General Education Core Requirements in the Leadership and Management degree is congruent with the General Education requirements of Maryland's higher education regulations and with Standard 12 of the *Characteristics of Excellence* of Middle States Association Commission on Higher Education.

Details of the General Education review are available in the program assessment for the General Studies Degree Program conducted in spring 2012.

1.1.2 Relationship to the College's Mission Statement and Strategic Plan

Cecil College Mission Statement

"Cecil College is a comprehensive, open-admission, learner-centered institution. The College provides career, transfer, and continuing education coursework and programs that anticipate and meet the dynamic intellectual, cultural and economic development challenges of Cecil County and the surrounding region. Through support services and a technologically enriched learning environment, the College strives to empower each learner with skills, knowledge, and values needed for college preparation, transfer to four-year institutions, workforce entry or advancement, and personal enrichment. Further, Cecil College promotes an appreciation of cultural diversity, social responsibility, and academic excellence."

CC Strategic Plan 2010-15

Cecil College Strategic Plan

The Strategic Plan focuses on four strategic initiatives:

1. Emphasis on student completion
2. Increasing opportunities for Bachelors and Higher Degree Programs in Cecil County
3. Creating workforce opportunities related to federal government expansion, and
4. Becoming a regional leader in incorporating innovative technology

Cecil College's Supply Chain Management degree program supports the mission of the College as well as the initiatives outlined in the Strategic Plan by providing a wide range of comprehensive coursework in a variety of business coursework that fosters the development of knowledge, skills, and abilities that are essential for students to prepare for workforce entry or advancement and personal enrichment.

Faculty Profile

Given the nature of the Supply Chain Management degree, most of our faculty members teach courses related to the course sequence. We have listed here, those Business and Commerce Technology faculty members who teach the mandatory courses for this degree. Faculty members teaching the General Education requirements are listed with the General Education assessments.

Faculty Member	Credentials	Courses Taught	Other College Activities
Candace Vogelsong	M.S. MBA B.S.	BUS 103	Chair, Business and Commerce Technology Member, Faculty Senate
Bobbie Haupt	M.S. B.S.	CIS 101	Chair, Senate Instructional Technology Committee
Peggy Jenkins	M.S. B.S.	ACC 101 ACC 102	Assessment Committee Periodic Review Report Committee (Fall 2013)
Carlos Lampkin	MBA B.S.	ECO 221 ECO 222	Academic Advisor & Assistant Professor Business
Patty Richardson	B.A.	SPH 141	Member, Senate Instructional Technology Committee
Joseph Kupresanin	M.A.S	MAT 127 MAT 128	Associate Professor of Mathematics
Ronald Treusdell	M.S. B.S.	TRL 107, 130, 230	Subject Matter Expert
Dwayne McKamey	M.S. B.S.	TRL 101	Subject Matter Expert

Supply Chain Management Degree Requirements

Total Credits Required in Program: 60

	<i>General Education Requirements</i>	<i>General Education Code</i>	<i>Credits</i>
<u>BIO or ENV</u>	Biology Science Elective with Lab Environmental Science Elective with Lab	S S	4
<u>CIS 101</u>	Introduction to Computer Concepts	I	3
<u>ECO 222</u>	Economics - Macro	SS	3
<u>EGL 101</u>	Freshman Composition	E	3
<u>HUM</u>	Humanities Elective	H	3
<u>SOC</u>	Social Science Elective	SS	3
<u>SPH 141</u>	Public Speaking	H	3
	<i>Program Requirements</i>		
<u>ACC 101</u>	Accounting I		3
<u>ACC 102</u>	Accounting II		3
<u>BUS 103</u>	Introduction to Business		3
<u>ECO 221</u>	Economics - Micro	SS	3
<u>ELEC</u>	Elective		2
<u>MAT 127</u>	Introduction to Statistics	M	4
<u>MAT 128</u>	Introduction to Statistics II	M	4
<u>MAT 201</u>	Calculus I with Analytic Geometry	M	4
<u>TRL 101</u>	Introduction to Logistics		3
<u>TRL 107</u>	Supply Chain Management		3
<u>TRL 130</u>	Production and Operations Management		3
<u>TRL 230</u>	Product Lifecycle Management (PLM)		3

NOTE FOR UNIVERSITY OF DELAWARE TRANSFER STUDENTS ONLY

Students participating in the articulation agreement with the Lerner School of Business must also complete the following courses in addition to the above degree requirements:

	<i>General Education Requirements</i>	<i>Credits</i>
<u>PSY</u>	Psychology Elective [SS]	3
<u>BIO or ENV</u>	Biology Science Elective [S] Environmental Science Elective [S]	3
	<i>Additional General Education Credits</i>	<i>6 Credits</i>
	<i>Total Transfer Credits to University of Delaware</i>	<i>66 Credits</i>

2.0 Statistical Data [Program Level]

The enrollment data for the past five years for the required business courses are provided below. The general education courses are addressed within the Program Review conducted by each discipline.

Enrollment History FY 2008 – 2012

Supply Chain Management Degree

	Total Enrollment
FY 2009/2010	0
FY 2010/2011	1
FY 2011/2012	2
FY 2012/2013	5
FY 2013/2014	5

**Full-Time/Part-Time Enrollment
FY 2009 – 2014**

	Total Enrollment	Full-Time	% of Total	Part-Time	% of Total
<u>FY 2009/2010</u>	Summer 2009	0	0%	0	0%
	Fall 2009	0	0%	0	0%
	Spring 2010	0	0%	0	0%
<u>FY 2010/2011</u>	Summer 2010	0	0%	0	0%
	Fall 2010	1	0%	1	100%
	Spring 2011	0	0%	0	0%
<u>FY 2011/2012</u>	Summer 2011	0	0%	0	0%
	Fall 2011	0	0%	0	0%
	Spring 2012	2	0%	2	100%
<u>FY 2012/2013</u>	Summer 2012	0	0%	0	0%
	Fall 2012	2	0%	2	100%
	Spring 2013	3	0%	3	100%
<u>FY 2013/2014</u>	Summer 2013	1	0%	1	100%
	Fall 2013	3	67%	1	33%
	Spring 2014	4	25%	3	75%

Students by Age

	Total Enrollment	Less Than 25	% of Total	26-30	% of Total	31-40	% of Total	41-50	% of Total	51 and over	% of Total
FY 2009/2010	0	0	0%	0	0%	0	0%	0	0%	0	0%
FY 2010/2011	1	0	0%	0	0%	1	100%	0	0%	0	0%
FY 2011/2012	2	0	0%	1	50%	0	0%	1	50%	0	0%
FY 2012/2013	5	4	80%	0	0%	1	20%	0	0%	0	0%
FY 2013/2014	5	1	20%	1	20%	2	40%	0	0%	1	20%

Students by Gender

	Total Enrollment	Female Student	% of Total	Male Students	% of Total
FY 2009/2010	0	0	0%	0	0%
FY 2010/2011	1	1	100%	0	0%
FY 2011/2012	2	0	0%	2	100%
FY 2012/2013	5	1	20%	4	80%
FY 2013/2014	5	2	40%	3	60%

Number of Students by Ethnicity

	Total Enrollment	African-American	% of Total	American Indian	% of Total	Asian	% of Total	Hispanic	% of Total	White	% of Total	Two or more races	% of Total	Unknown	% of Total
FY 2009/2010	0	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
FY 2010/2011	1	0	0%	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%
FY 2011/2012	2	1	50%	0	0%	0	0%	0	0%	1	50%	0	0%	0	0%
FY 2012/2013	5	0	0%	0	0%	0	0%	0	0%	5	100%	0	0%	0	0%
FY 2013/2014	5	1	20%	0	0%	1	2%	0	0%	4	80%	0	0%	0	0%

First-time Students in the Fall Semester who enrolled in the Next Fall Semester

	Number of First Time Students Enrolled in Fall	Number of Students Enrolled in the Next Semester	% of Total
FY 2009/2010	0	0	0%
FY 2010/2011	0	0	0%
FY 2011/2012	0	0	0%
FY 2012/2013	2	0	0%
FY 2013/2014	1	0	0%

First-time Students Who Have Completed 30 College Level Credits or more

	Total First- time Students	Students WHO HAVE NOT COMPLETED College-Level Credits	% of Total	Students Who Have Completed 15 College- Level Credits or less	% of Total	Students Who Have Completed 16-29 College- Level Credits or more	% of Total	Students Who Have Completed 30 College-Level Credits or more	% of Total
FY 2009/2010	0	0	0%	0	0%	0	0%	0	0%
FY 2010/2011	0	0	0%	0	0%	0	0%	0	0%
FY 2011/2012	2	0	0%	2	100%	0	0%	0	0%
FY2012/2013	4	2	50%	2	50%	0	0%	0	0%
FY2013/2014	3	0	0%	2	67%	1	33%	0	0%
TOTAL	9	2	22%	6	67%	1	11%	0	0%

Students starting in FY 2009-2010 and completed 30 credits that Transferred Out (Headcount)

Type of Higher Institutions

In-State Transfer	
2-year institution	4-year institution
0	0

Out-of-State Transfer	
2-year institution	4-year institution
0	0

In-State Transfer	
Public	Private
0	0

Out-of-State Transfer	
Public	Private
0	0

Top 10 Higher Education Institutions where Cecil College Students Transferred

In-State	
None	
Out-of-State	
None	

Students starting in FY 2009-2010 and completed 15-29 credits that Transferred Out (Headcount)

Type of Higher Institutions

In-State Transfer	
2-year institution	4-year institution
0	0

Out-of-State Transfer	
2-year institution	4-year institution
0	0

In-State Transfer	
Public	Private
0	0

Out-of-State Transfer	
Public	Private
1	0

Top 10 Higher Education Institutions where Cecil College Students Transferred

Out-of-State	
None	

Number of Degrees Awarded to Pell Recipients

	Total Degrees	Pell Recipients	% of Total
FY 2009/2010	0	0	0%
FY 2010/2011	0	0	0%
FY 2011/2012	0	0	0%
FY 2012/2013	0	0	0%
FY 2013/2014	0	0	0%
Total	0	0	0%

3.0 General Education Objectives

Appendix G Program Assessment of General Education Requirements

Program Outcomes	Student Learning Outcomes	Direct/Indirect Assessment Measure	Population	Reporting/Use
<i>A. Students who complete the College's General Education Core Requirements will demonstrate college-level competency in critical and creative thinking skills and problem-solving strategies.</i>	1. Students will identify, categorize and distinguish among elements of ideas, concepts, theories and/or practical approaches to standard problems. 2. Students will analyze, evaluate, and/or criticize various academic disciplines and/or regional/national/global issues.	a. Research Papers b. Exams/Tests c. Final Exams d. Projects e. Multimedia Presentations f. Team-oriented Activities g. Capstone projects	Students in all Business courses	Course Assessments for all required business/accounting related courses: ACC 101 Accounting I ACC 102 Accounting II BUS 103 Introduction to Business BUS 187 Business Ethics TRL 101 Introduction to Logistics TRL 107 Supply Chain Mgt. TRL 130 Production & Operations Management TRL 230 Product Lifecycle Mgt.
<i>B. Students who complete the College's General Education Core Requirements will demonstrate College-level competency in writing.</i>	1. Students will demonstrate accurate and effective explanatory writing skills. 2. Students will locate, collect and organize evidence on an assigned research topic.	a. Research papers b. Papers c. 'C' Standards rubric	Students in all Business courses	Course Assessments for all required business/accounting related courses: ACC 101 Accounting I ACC 102 Accounting II BUS 103 Introduction to Business BUS 187 Business Ethics TRL 101 Introduction to Logistics TRL 107 Supply Chain Mgt. TRL 130 Production & Operations Management TRL 230 Product Lifecycle Mgt.
<i>C. Students who complete the College's General</i>	1. Students will demonstrate effective public speaking	a. Oral presentation rubrics	Students in all General	Course Assessments for all required business related courses:

Program Outcomes	Student Learning Outcomes	Direct/Indirect Assessment Measure	Population	Reporting/Use
Education Core Requirements will demonstrate college-level competency in oral communications.	skills. 2. Students will demonstrate an ability to evaluate their own public speaking skills.	b. Informal Oral Responses e. Formal Oral Presentations f. Multimedia Presentations g. Team-oriented Activities	Education courses	Course Assessments for all required business/accounting related courses: ACC 101 Accounting I ACC 102 Accounting II BUS 103 Introduction to Business BUS 187 Business Ethics TRL 101 Introduction to Logistics TRL 107 Supply Chain Mgt. TRL 130 Production & Operations Management TRL 230 Product Lifecycle Mgt.
D. Students who complete the College's General Education Core Requirements will demonstrate college-level competency in quantitative analysis.	1. Students will demonstrate understanding of mathematical principles and methods. 2. Students will demonstrate the ability to perform accurate calculations and symbolic operations.	a. Papers b. Tests c. Final Exams d. Projects e. Team-oriented Activities	Students in all General Education math courses and Business – Accounting courses	Course Assessments for the following Business/Accounting courses: ACC 101 – Accounting I ACC 102 – Accounting II
E. Students who complete the College's General Education Core Requirements will demonstrate college-level competency in computer literacy and in the ability to	1. Students will demonstrate the ability to determine or calculate the solution to a problem through the use of computer technology. 2. Students will demonstrate the ability to make effective	a. Information Technology Assessment tool b. Papers c. Tests d. Final Exams e. Projects	Students in all General Education English courses and Business Courses	Course Assessments for all required business/accounting related courses: ACC 101 Accounting I ACC 102 Accounting II BUS 103 Introduction to Business BUS 187 Business Ethics

Program Outcomes	Student Learning Outcomes	Direct/Indirect Assessment Measure	Population	Reporting/Use
<i>work productively with information technology.</i>	use of writing-related computer technology.	f. Team-oriented Activities		TRL 101 Introduction to Logistics TRL 107 Supply Chain Mgt. TRL 130 Production & Operations Management TRL 230 Product Lifecycle Mgt.
<i>F. Students who complete the College's General Education Core Requirements will demonstrate college-level competency in awareness of ethics, cultural diversity, artistic expression, health-and-wellness issues, and the physical and social environment.</i>	1. Students will demonstrate an awareness of ethical behavior. 2. Students will demonstrate an understanding of and appreciation for cultural diversity. 3. Students will demonstrate understanding of and appreciation for artistic expression. 4. Students will demonstrate understanding of and appreciation for health-and-wellness issues. 5. Students will demonstrate understanding of and appreciation for the physical and social environment.	a. Papers b. Tests c. Final Exams d. Projects e. Team-oriented Activities	Students in all Business Courses	Course Assessments for all required business/accounting related courses: ACC 101 Accounting I ACC 102 Accounting II BUS 103 Introduction to Business BUS 187 Business Ethics TRL 101 Introduction to Logistics TRL 107 Supply Chain Mgt. TRL 130 Production & Operations Management TRL 230 Product Lifecycle Mgt.
<i>G. Students who complete the College's General Education Core Requirements will</i>	1. Students will identify, categorize, and evaluate multiple information resources. 2. Students will cite multiple	a. Information Technology Assessment tool b. Papers	Students in all Business Courses	Course Assessments for all required business/accounting related courses: ACC 101 Accounting I

Program Outcomes	Student Learning Outcomes	Direct/Indirect Assessment Measure	Population	Reporting/Use
<i>demonstrate college-level competency in information literacy including finding, evaluating, and using information effectively.</i>	information resources in various course assignments.	c. Tests d. Final Exams e. Projects f. Multimedia Presentations g. Team-oriented Activities h. Capstone projects		ACC 102 Accounting II BUS 103 Introduction to Business BUS 187 Business Ethics TRL 101 Introduction to Logistics TRL 107 Supply Chain Mgt. TRL 130 Production & Operations Management TRL 230 Product Lifecycle Mgt.

3.1 Program Strengths

- Active Advisory Board
- Facilities/equipment available are good in meeting the requirements for the Supply Chain Management Degree.
- Flexibility for students to align courses with the requirements of four-year partners.
- Full and Adjunct Faculty are experienced.
- On-Line Course offerings are available to meet the scheduling needs of students.
- The College has developed a technology plan.
- The Supply Chain Management Degree provides a firm foundation for a well-rounded education in preparing students to be successful in the workplace and transferring to a four-year College or University.
- The program has low turnover in faculty and a relatively low student/teacher ratio.

3.2 Program Weaknesses

- Need for updated Marketing materials
- Improvement needed in Community Outreach
- Low enrollments in some courses

3.3 Program Opportunities

- Develop additional articulation agreements with four-year institutions.
- The Base Realignment and Closure (BRAC) initiative is still an opportunity for developing programs.
- Better market career path opportunities for this degree program.
- Revamp marketing and branding strategies for this program, including better website presence.

3.4 Program Threats

- Low enrollment in many courses
- Increasing need/use of Adjunct Faculty
- Competing institutions offering the same or similar programs.

4.0 Other Program Information

4.1 Advisory Council/Board

There is an active Advisory Board for the Business Degree Programs.

This board was established in conjunction with the Cecil College Continuing Education Division. This Board has members from the local business community, a current student and a recent graduate with a Business degree. This Board will continue assess the curriculum and recommend adjustments to ensure program offerings are addressing the needs of the students and the business community. The recommended composition of this Board is:

Continuing Education – Advisory
 Business Faculty – Member
 Current Business Student – Member
 Recent Business Graduate - Member
 Private/Public Industry – Member (3-5)

4.2 Adequacy of Available Technology

The technology available for the Supply Chain Management degree is adequate in meeting the needs of the students. The technology is reviewed annually and recommendations are made to ensure funding is available during the current budget cycle.

4.3 Adequacy of Facilities

Classroom space is adequate for students and the library has the necessary resources to meet student need.

4.4 Articulation Agreements

There is currently an Articulation Agreement in place with the University of Delaware for the Supply Chain Management degree. As a result of this program review, that agreement will require revision and update.

The following are a sampling of four year schools that are partners through the Artsys System

Cecil College Degree	Partner College/University	Effective date of the Articulation Agreement	Current status of the Articulation Agreement
Business Administration	Notre Dame of Maryland University	Unknown	Active
Business Administration	Frostburg State	Unknown	Active
Business Administration	University of Baltimore	Unknown	Active
Business Administration	Bowie State	Unknown	Active
Business Administration	Towson University	Unknown	Active
Business Administration	Washington College	Unknown	Active
Business Administration Transfer	University of Maryland – College Park	Unknown	Active

5.0 Program Goals and Objectives

Goals	Timetable for Completion	Required Resources	Obstacles to Completion (if any)
5.1 Establish a Business Advisory Group for the Business Degree Programs	Fall 2014 - Completed	Membership from: 1. Continuing Education 2. Business Faculty 3. Current 2 nd year student 4. Recent Graduate 5. 2-3 members from the business community	None Foreseen
5.2 Review Degree Requirements – Reduce requirement from 70 credits to 60 credits	Fall 2014 - Completed	Advising Business Faculty Faculty Affairs	None Foreseen
5.3 Improve Degree Completion through increased recruitment efforts	On-Going	Advising Student Outreach Business Faculty	None Foreseen

6.0 Recommendations

The Supply Chain Management degree program should be retained. This degree program should be reviewed during the spring 2017 to determine if sufficient enrollments support this degree program.

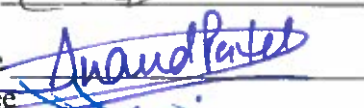
Approvals

Signature of Division Chair



Date 5/13/15

Signature of the Chair of the Academic Affairs Committee



Date 5/13/15

Signature of the Dean of Academic Programs



Date 5-13-15

Signature of the Chief Academic Officer



Date 5-13-15