

**Central Connecticut State University**  
UNIVERSITY SENATE ACTION

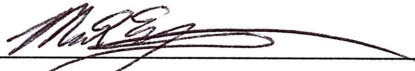
**Senate Motion Number FS 19.20.006B**

TO: President Zulma Toro  
FROM: President of the University Senate

1. The attached motion of the University Senate, dealing with: **Curriculum Committee Report, October 2019**, is presented to you for your consideration.
2. This motion was adopted by the University Senate on **10/21/2019**.
3. After considering this motion, please indicate your action on this form, and return it together with the original copy to the President of the University Senate.
4. Under the By-Laws of the University Senate, Section 3.7, the following schedule of action is to be observed.
  - a) By **11/04/2019**, Senate action reported to the President of the University. (Within five school days of the session in which they are adopted).
  - b) By **11/18/2019**, the President of the University to return the motion to the President of the Senate. (Within ten school days of its receipt).

**11/04/2019**

Date

  
\_\_\_\_\_  
Mark Jackson, President, University Senate

ENDORSEMENT:

TO: President of the University Senate  
FROM: President Zulma Toro

1. Motion Approved : \_\_\_\_\_ ✓ \*
2. Motion Disapproved: \_\_\_\_\_ (Explanatory statement must be appended).
3. Action "is deferred": \_\_\_\_\_
4. Resolution Noted: \_\_\_\_\_
5. Other: \_\_\_\_\_

\* Please see page 3 of 10 where there are 5 courses listed - nothing is included to replace the "3" being deleted. Also, page 4 of 10 TM 582 deletes "3" indicating the number of credits but nothing is added to replace it.

11/11/2019  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
President Zulma Toro

**TO: Faculty Senate**  
**FROM: Beth Merenstein, Chair, University Curriculum Committee**  
**SUBJECT: Curriculum Committee Report**  
**DATE: 10/17/19**

The following items were approved at the University Curriculum Committee meeting of October 16<sup>th</sup>, 2019

1) Announcements

BMS is in the process of converting its MA in BMS to an MS in BMS. There are no other changes to the program except for the change from ARTS to SCIENCE on the degree. This has already gone through entire process of vetting so this is for informational purposes only.

2) Minor Changes

a. Geography:

Item	Title	Proposed Correction
Minor	Geographic Information Sciences Minor	Geography - Geographic Information Science Minor
Minor	Environmental Geography Minor	Geography - Environmental Geography and Sustainability Minor
Minor	Geography Minor	Geography - General / Regional Minor
Minor	Tourism Minor	Geography - Tourism Minor
Minor	Geography with Specialization in Planning Minor	Geography - Planning Minor
Major	Hospitality and Tourism, B.S.	Tourism and Hospitality Studies, B.S.
GEOG 440	Rural Land Planning	Rural Land Use Planning
GEOG 130	Introduction to Geography Information Science	GEOG 130 Introduction to Geographic Information Science

b. Chemistry Changes

Change course: **CHEM 100 Search in Chemistry**

(Change title to): Chemistry in Context

Examination of various topics, contemporary issues, and problems related to chemistry and biochemistry. Three hours of lecture per week. No credit given toward a major or minor in the sciences.

Delete "May be repeated with a different topic for up to 6 credits".

~~Change course: **CHEM 200 Foundations of Analytical Chemistry**~~

~~Prerequisites: Grade of C- or better in CHEM 161 and CHEM 162.~~

~~MATH 115 AND 116 OR MATH 119 OR MATH 124 OR MATH 115 AND MATH 125~~

~~Change course: **CHEM 260 Foundations of Inorganic Chemistry**~~

~~Prerequisites would read: Grade of C- or better in CHEM 161 and CHEM 162. MATH 115 AND 116 OR MATH 119 OR MATH 124 OR MATH 115 AND MATH 125~~

~~Change course: **CHEM 354 Foundations of Biochemistry**~~

~~Prerequisites would read: C- or better in CHEM 210. MATH 115 AND 116 OR MATH 119 OR MATH 124 OR MATH 115 AND MATH 125~~

- c. Marketing: change the course number to MKT 482 from MKT 480 to avoid course number duplication (this course was already approved last academic year)

3) Consent Agenda:

- a. Please note the following items can also be viewed under the system dashboard and the Faculty Senate Workflow State here: [Curriculum Dashboard](#)

Item	Type	Name
3.1	Change Course	ATR 500 Pre-Clinical in Athletic Training - credits
3.2	Change Course	ATR 501 Clinical I: Acute Care & Emergency Medicine - credits
3.3	Change Course	ATR 502 Clinical II: Orthopedics - credits
3.4	Change Course	ATR 503 Clinical III: Rehabilitation - credits
3.5	Change Course	CE 301 CE Fundamental Computations - credits
3.6	Change Course	CE 376 Environmental Engineering - credits
3.7	Change Course	CE 498 Civil Engineering Senior Design Project (Capstone) - credits
3.8	Change Course	CHEM 212 Organic Synthesis - 3 credits
3.9	Change Course	DES 499 Computer Applications for Graphic/Information Design - credits
3.10	Change Course	ENGR 510 Engineering Optimization - 3 credits
3.11	Change Course	ENGR 592 Research and Development of Experiments - 3 credits
3.12	Change Course	MATH 102 Applied Algebra - 3 credits
3.13	Change Course	MATH 103 College Algebra - 3 credits
3.14	Change Course	ME 352 Modeling and Control of Dynamic Systems - credits
3.15	Change Course	ME 403 Aerospace Control Systems - credits
3.16	Change Course	ME 497 Senior Project I: Project Research - 2 credits
3.17	Change Course	ME 498 Senior Project II: Design Project - credits
3.18	Change Course	ME 523 Contemporary Engineering Materials - 3 credits
3.19	Change Course	ME 569 Composite Design and Analysis - 3 credits
3.20	Change Course	ROBO 380 Mechatronics - 4 credits
3.21	Change Program	Geography with Specialization in Environmental Geography and Sustainability, B.A.
3.22	Change Program	Geography with Specialization in General/Regional Geography, B.A.

3.23	Change Program	Geography with Specialization in Tourism, B.A.
3.24	Change Program	Hospitality and Tourism, B.S.
<del>3.25</del>	<del>Change Program</del>	<del>Management Information Systems, B.S. - REMOVE FROM CONSENT AGENDA</del>
3.26	Change Program	Mathematics Minor (Non-teaching)
3.27	Change Program	Political Science, B.A.
3.28	Change Program	Robotics and Mechatronics Engineering Technology, B.S.
3.29	Change Program	Technology Management M.S.
3.30	New Course	CE 552 Advanced Foundation Engineering - 3 credits
3.31	New Course	CE 570 Advanced Steel Structure Design - 3 credits
3.32	New Course	CE 571 Advanced Concrete Design - 3 credits
3.33	New Course	CE 572 Design of Prestressed Concrete Structures - 3 credits
3.34	New Course	CE 573 Plastic Design of Steel Structures - 3 credits
3.35	New Course	CE 574 Finite Element Method for CE Structures - 3 credits
3.36	New Course	CE 575 Dynamics of Structures - 3 credits
3.37	New Course	CE 576 Bridge Engineering - 3 credits
3.38	New Course	CE 577 Earthquake Engineering - 3 credits
3.39	New Course	CE 578 Loads for Civil Structures - 3 credits
3.40	New Course	CE 597 Thesis I - 3 credits
3.41	New Course	CE 599 Thesis II - 3 credits
3.42	New Course	CM 550 Automated and Emerging Technologies in Construction - 3 credits
3.43	New Course	DES 599 Advanced Computer Applications for Graphic/information Design - 3 credits
3.44	New Course	ENGR 501 Engineering Analysis - 3 credits
3.45	New Course	ENGR 557 Advanced Mechanics of Materials - 3 credits
3.46	New Course	LLA 528 Multisensory Structured Language Instruction 3 credits
3.47	New Course	LLA 529 Multisensory Structured Language Instruction Practicum 3 credits
3.48	New Course	MATH 422 Introduction to Mathematical Software 1 credits
3.49	New Course	ME 501 Digital Control - 3 credits
3.50	New Course	ME 502 Optimal Control - 3 credits
3.51	New Course	ME 503 Dynamic System Parameter Identification - 3 credits
3.52	New Course	ME 505 Design of Control Systems with Uncertainties - 3 credits
3.53	New Course	ME 509 Guidance, Navigation, and Control - 3 credits
3.54	New Course	ME 516 Machines and Mechanisms - 3 credits
3.55	New Course	ME 518 Fracture Mechanics - 3 credits
3.56	New Course	ME 520 Tribology - 3 credits
3.57	New Course	ME 522 Elasticity and Plasticity - 3 credits
3.58	New Course	ME 525 Materials Engineering of Additive Manufacturing - 3 credits
3.59	New Course	ME 540 Advanced Geometric Dimensioning & Tolerancing and Metrology - 3 credits
3.60	New Course	ME 545 Design and Analysis of Additive Manufacturing - 3 credits
3.61	New Course	ME 551 Advanced Fluid Mechanics - 3 credits
3.62	New Course	ME 553 Computational Fluid Dynamics - 3 credits

3.63	New Course	ME 554 Advanced Heat Transfer - 3 credits
3.64	New Course	ME 555 Combustion - 3 credits
3.65	New Course	ME 557 Turbomachinery - 3 credits
3.66	New Course	ME 559 Heating, Ventilation & Air Conditioning - 3 credits
3.67	New Course	ME 563 Engineering of Additive Manufacturing Processes - 3 credits
3.68	New Course	ME 565 Advanced Manufacturing Engineering - 3 credits
3.69	New Course	ME 567 Advanced Finite Element Analysis - 3 credits
3.70	New Course	ME 580 Aerospace Propulsion Systems - 3 credits
3.71	New Course	ME 582 Advanced Propulsion - 3 credits
3.72	New Course	ME 583 Advanced Aerodynamics - 3 credits
3.73	New Course	ME 586 Aerospace Structures - 3 credits
3.74	New Course	ME 588 Flight Dynamics - 3 credits
3.75	New Course	ME 597 Thesis I - 3 credits
3.76	New Course	ME 599 Thesis II - 3 credits
3.77	New Course	ROBO 425 Advanced Programmable Logic Controllers - 3 credits
3.78	New Course	SPED 528 Multisensory Structured Language Instruction - credits
3.79	New Course	SPED 529 Multisensory Structured Language Instruction Practicum - credits
3.80	New Course	SPED 537 Executive Function, ADHD, and Learning - credits
3.81	New Course	TM 570 Supply Chain Modeling and Analysis - 3 credits
3.82	New Course	TM 576 Autonomous Logistics - 3 credits
3.83	New Course	TM 596 Topics in Supply Chain & Logistics Management - 3 credits
3.84	New Program	Civil Engineering, MS
3.85	New Program	Mechanical Engineering, MS
3.86	New Program	Official Certificate Program in Additive Manufacturing Engineering
3.87	New Program	Official Certificate Program in Advanced Manufacturing Engineering
3.88	New Program	Supply Chain & Logistics Management (M.S. Program)

Select Version to Compare

1. Supply Chain & Logistics Management (M.S. Program) 08, ⬇

Select Current Proposed Version

15. Supply Chain & Logistics Management (M.S. Program) 11, ⬇

Compare Key

  New Section      ABC New/Modified Text

  Deleted Section      ABC Deleted Text

Program Name

Supply Chain & Logistics Management (M.S. Program)

## Program Description

### **Program Rationale:**

The Master of Science in Supply Chain & Logistics Management (SCLM) Program is designed to fulfill the educational needs of students and working professionals whose career paths are directed toward management in technologically-oriented organizations.

### **Program Learning Outcomes:**

Graduate students in the program will be expected to:

- Apply knowledge of technology and management principles to the contemporary supply chain and logistics practices such as sourcing, quality, flow of materials, manufacturing / assembly operations, warehousing, transportation, order management and delivery to the customer,
- Identify, analyze, and solve supply chain and logistical problems using continuous improvement methods,
- Exhibit the knowledge required to lead projects and manage relationship with suppliers inside and outside the organization, diverse workforce, facilities, and problem-solving teams,
- Acquire knowledge and skills to meet the evolving challenges of global supply chains and logistics,
- Communicate effectively in written, oral, graphic and visual modes. Coordinate and communicate with key stakeholders inside and outside the organization.

### **Admission Requirements:**

Applicants must hold a bachelor's degree from a regionally accredited institution of higher education. Applicants must also have a minimum undergraduate GPA of 2.70 on a 4.00-point scale (where A is 4.00), or its equivalent, and good standing (3.00 GPA) in all post-baccalaureate course work.

The graduate application, application fee, and official transcripts are to be submitted to the Graduate Recruitment and Admissions Office. Official transcripts must be sent directly to the Graduate Recruitment and Admissions Office from each institution attended except Central Connecticut State University.

Contact: 860-832-1830

Applicant Deadlines for the M.S. Supply Chain & Logistics Management program are as follows:

- August 1 for Fall Semester
- December 1 for Spring Semester
  - May 1 for Summer Term

International students must apply by the following application deadline (summer term is not available to international students):

- May 1 for Fall Semester
- November 1 for Spring Semester

Degree Requirements

Degree Requirements Title Course and Capstone Requirements:

Requirement Type a. All three plans have a core curriculum as follows:

Course List

Course List TM 510 Industrial Operations Management - 3 credits

Course List TM 561 Application of Lean Principles - 3 credits

Course List ? ~~Technology Management TM~~ SCLM 562– Supply Chain Strategy <sup>3</sup> ~~3~~ credits

Course List ? ~~Technology Management TM~~ SCLM 563– Strategic Logistics Management - ~~3~~ credits

Course List ? <sup>3</sup> ~~Technology Management TM~~ SCLM 564– Quality Systems Management <sup>3</sup> ~~3~~ credits

Course List ? ~~Technology Management TM~~ SCLM 565– Logistics: Traffic and Transportation ~~3~~ credits  
<sup>3</sup>

Course List ? ~~Technology Management TM~~ SCLM 566– Distribution and Warehouse Management ~~3~~ credits  
<sup>3</sup>

Requirement Note

**Degree Requirements**

The Master of Science in Supply Chain & Logistics Management (SCLM) is a 33-credit master’s, consisting of three different plans. Plan A is 30 credits plus a three-credit thesis; Plan B is 33 credits with comprehensive exam; and Plan C is 30 credits plus a three-credit applied research project.

Requirement Type b. Directed electives.



Course List

Course List

Technology Management 570 - Supply Chain Modeling and Analysis - 3 credits

Course List

Technology Management 576 - Autonomous Logistics - 3 credits

Course List

3 ~~Technology Management~~ TM 582 - Evolution of Industrial Management - 3 credits

Course List

~~TM 596 Technological Issues and Problems~~ SET 590 Topics in International Field Studies - ~~1-33~~ credits

Course List

~~SET 590 Topics in International Field Studies~~ AC 521 Accounting for Lean Enterprises - 3 credits

Course List

~~AC 521 Accounting for Lean Enterprises~~ TM 500 Product Life Cycle Management - 3 credits

Course List

~~TM 500 Product Life Cycle Management~~ 502 Human Relations and Behavior in Complex Organizations - 3 credits

Course List

~~TM 502 Human Relations and Behavior in Complex Organizations~~ 551 Project Management - 3 credits

Course List

~~TM 551 Project Management~~ 572 Innovative Leadership - 3 credits

Course List

~~TM 572 Innovative Leadership~~ 512 Principles of Occupational Safety - 3 credits

Course List

~~TM 512 Principles of Occupational Safety~~ 464 Six Sigma Quality - 3 credits

Course List

~~TM 464~~ 490 Advanced Six Sigma Quality - 3 credits

Course List

~~TM 490 Advanced Six Sigma Quality~~ Technology Management 596 - Topics in Supply Chain & Logistics Management - 3 credits

Requirement Note

These are graduate courses in technology at the 400- and 500-level, as approved by a faculty advisor. Students selecting Plan A or Plan C will take three courses, and four if the Plan B option is chosen.

Requirement Type            c. All three plans have capstone course requirements of 0-3 credits.

Course List

Requirement Note

Requirement Type            Plan A:

Course List

Course List                    TM 599 Thesis - 3 credits

Requirement Note

Requirement Type            Plan B:

Course List

Requirement Note

Comprehensive Exam - credits

Requirement Type            Plan C:

Course List

Course List                      TM 595 Applied Research Capstone Project - 3 credits

Requirement Note

**Note: No more than nine credits at the 400 level, as approved by the graduate advisor, may be counted toward the graduate planned program of study.**

College                              SEST

Department                      Manufacturing and Construction Management

Total Number of Required    33  
Hours

Minor Required                    No

Specific Admission  
Standards

**Applicants must also have a minimum undergraduate GPA of 2.70 on a 4.00 point scale (where A is 4.00), or its equivalent, and good standing (3.00 GPA) in all post-baccalaureate course work**

Is this a graduate                Yes  
program?

Rationale and Effects



## Academic Rationale

The Supply Chain and Logistics Management (MS-SCLM) graduate program at Central Connecticut State University reflects strong commitment to business and industry for advancing knowledge and applications in the supply chain and logistics management. It will build upon existing courses and existing faculty resources and expertise. The Manufacturing and Construction Management (MCM) department currently offers the following: B.S. Manufacturing Management and Technology Management programs at the undergraduate level. Students in these programs take the course Supply Chain and Purchasing Strategy. Graduates are employed in Supplier Quality and Materials Management positions where they are responsible for assuring part quality and managing materials and subcomponents supply. M.S. Technology Management Program has been offered for over 20 years. This program has six core courses and five elective courses which allow students to specialize in Supply Chain and Logistics Management area. The new MS program will use these core areas of concentration and students will pursue their individual interests from the elective courses. Official Certificate Program (OCP) in Supply Chain and Logistics Management is a four-course sequence that has been offered for the past 10 years. These courses will become part of the core requirements of the new M.S. in Supply Chain and Logistics Management. Fit with Institutional Mission. The MS-SCLM degree program will support the University's distinctive commitment as a comprehensive public university to provide broad access to quality degree programs at all levels and respond to workforce needs to enhance the state's economic development. Consistent with this mission, the M.S. in Supply Chain and Logistics Management will operate in concert with the Master of Science in Technology Management and the OCP programs to prepare students to be knowledgeable and effective professionals who contribute to their employers' success. Fit with School of Engineering, Science and Technology: The MS-SCLM program is consistent with the mission of SEST: □ The School of Engineering, Science and Technology will strive to provide an innovative and unique educational experience to every student, develop the most qualified engineers, scientists and technologists. The School will maintain academic excellence in a wide variety of traditional disciplines and develop innovative disciplines in emerging fields, creating interdisciplinary educational and research programs, and building the infrastructure to support the expansion of programs.

## Demand Rationale

Graduates will be prepared to accomplish logistics operational excellence and challenging aspects of operations by creating links between manufacturers, suppliers, and consumers. The operational leadership will be achieved by coordinating new technologies and the processes to achieve budgets, metrics and customer goals and expectations. The US companies widely adopted supply chain and logistics management due to increased globalization. Our local manufacturing enterprises are driven to pursue a global manufacturing strategy. These companies transcend national boundaries to leverage raw materials, resources, outsourcing capabilities and marketing worldwide. Every company in the state of Connecticut is involved with and has need for knowledge of Supply Chain and Logistics Management. The demand for professionals in this field represents a growing opportunity. Every company has the need to purchase products from the supply chain and ship products to customers requiring logistic support. Students will seek out the Supply Chain and Logistics Management (SCLM) Master's Degree program from the following sources: 1. Students with technology management or engineering technology major, as well as any science or business major. 2. Professionals from manufacturing industries employed in supply chain functions. 3. Professionals in service industries

employed in warehousing and logistics functions. 4. Professional from manufacturing industries and service companies who are employed in allied fields such as engineering, quality, finance, and IT. 5. Federal government (e.g. Department of Defense) personnel seeking advanced degrees. 6. State and local government employees engaged in purchasing and supply chain management.

Are there impacts to  
faculty needs? *(checked)*

Faculty Effects No new faculty needed

Are there impacts to  
facilities needs? *(checked)*

Facilities Effects Existing facility is sufficient

Are there impacts to  
equipment needs? *(checked)*

Equipment Effects Existing equipment is sufficient

Are there impacts to library  
needs? *(checked)*

Library Effects Existing library resources are sufficient

Are there impacts to  
computer needs? *(checked)*

Computer Effects Existing computer facilities are sufficient

Does this program lead to  
teacher certification? *(checked)*

Teacher Certification No

Licensure Accreditation Concerns (checked)

Licensure Accreditation Explanation No

Curriculum Sheet and/or Academic Map

MS-SCLM Advising SheetsBrochure MS-SCLM-2019Plan of Study Form Supply Chain Logistics Management

Dean and Committee Approval

Dean Review and Committee Approval Required School of Engineering Science and TechnologyGraduate School

Received

Dean Review Received

General EducationInterdisciplinarySchool of Engineering Science and TechnologyGraduate School

Committee Approval Received School of Engineering Science and TechnologyGraduate School

Date approved by department 8/29/2019

Additional Departments to be notified

Departments to be Notified