



College of Technology Site Coordinator's Meeting

Date: Friday, March 8, 2019 Time: 9:30AM

Hosted by: Central CT State University

1615 Stanley Street, New Britain, CT 06050

Building: Memorial Hall Room: The Constitution Room



ATTENDEES

CT State Colleges & Universities

Karen Wosczyzna-Birch, Executive Director, College of Technology – Regional Center for Next Generation Manufacturing
Wendy Robicheau, Project Manager, College of Technology – Regional Center for Next Generation Manufacturing
Susan Spencer, Program Coordinator – COT programs, Gateway CC
Eric Flynn, Department Chair – Engineering & Applied Technologies, Gateway CC
Joe Duhaime, Program Director - Mfg, Housatonic CC
Deirdre D'Amore, Advanced Mfg Technology Advisor, Naugatuck Valley CC
Joe DeFeo, Program Director-Mfg, Naugatuck Valley CC
Mobin Rastgar Agah, Program Coordinator – Norwalk CC
Lin Lin, Program Coordinator, Middlesex CC
Jodi Clark, Assistant Director, Advanced Manufacturing Technology Center, Quinebaug Valley CC
Mark Vesligaj, Program Coordinator, Three Rivers CC
Greg Szepanski, Program Coordinator, Tunxis Community College
Larry Hall, Director of Admissions, Central CT State University
Z. B. Kremens, Interim Dean, School of Engineering, Science, and Technology, Central CT State University
Segun Odesina, Associate Dean, School of Engineering, Science, and Technology, Central CT State University
Ravindra Thamma, Dept. Chair/Program Coordinator, Manufacturing & Construction Management, Central CT State U.
James DeLaura, Chair, Technical and Engineering Education, Central CT State University
Peter Baumann, Chair, Engineering, Central CT State University
Shuju Wu, Professor, Computer Electronics & Graphics Technology, Central CT State University

Other College & Universities

David Giblin, Assistant Professor, Mechanical Engineering, University of Connecticut
Tolga Kaya, Director of Engineering, Sacred Heart University
Kevin Blake, Director of Admissions, Sacred Heart University
John Birch, Executive Director, Engineering Technology Challenge

MINUTES

Opening Remarks – Dr. Olusegun “Segun” Odesina, Associate Dean, School of Engineering, Science, and Technology

- Welcome to Central CT State University (CCSU). We will be hearing from President Toro shortly.
- Dr. Karen Wosczyzna-Birch, Executive Director, College of Technology, Regional Center for Next Generation Manufacturing – There is also a competing event today with the consolidation committee for Guided Pathways, which will include a discussion on manufacturing technology. Mike Kozlowski, Interim Director of Manufacturing for the system will be leaving and we are not sure of the future of this position at this time. The COT is handling the academic and curriculum side of manufacturing.

Attendee Introductions and Updates – All attendees

- Jim DeLaura of Central ST State University reported that three students from Asnuntuck CC and one student from another community college are in the Technology and Engineering Education program at CCSU and are doing very well.
- Karen Wosczyzna-Birch of the COT-RCNGM reported that there are many options for COT community college students to transfer to in engineering, technology, and even technology education.

Welcome Remarks – Dr. Zulma Toro, President, CCSU

- Welcome to CCSU and congratulations to all the women on International Women's Day.
- Extremely excited about our collaborations in engineering and technology. It is a pleasure and to be able to host this month's COT Meeting and proud to be a partner in the COT for over 25 years. COT pathways ensure

we can meet workforce needs in Connecticut. Nationally, there will be an estimates 3.5 million job openings in manufacturing between now and 2025. STEM jobs are growing at 13% compared to non-STEM jobs at 9%.

- There are so many promising students to work with each semester.
- Construction on the new engineering building will being before the end of the year.
- We have recently received approval to offer an M.S. degree in Supply Chain and there will be new programs in electrical engineering, civil engineering, and mechanical engineering in Fall 2020.

CCSU Admissions and Transfer Updates – Larry Hall, Director of Recruitment and Admissions

- The deadline for transfer admission is June 1st.
- There is a new Common App Transfer Application. Students can now request transcripts through the Common App.
- CCSU is still working on identifying TAP students through the application. CCSU does verify this themselves and then makes sure students have taken appropriate courses.
- Students are admitted for spring also, with a deadline application of December 1st.
- There are approximately 830 transfer students admitted each year with a little less than half being from community colleges.
- There have been some changes to the website for advising. You can now enter multiple courses at multiple institutions to find course equivalencies. Faculty is working to make sure what is on the website is accurate.
- Transfer Orientation will be in Summer and January.
- For transfer advising specific to manufacturing and engineering, contact Dr. Peter Baumann, Department Chair.
- Awarding of transfer credit comes under the authority of the academic department.
- Students in the Middlesex CC CAD course will be registered as CCSU students and non-matriculated at Middlesex CC.

Updates from CCSU School of Engineering, Science, and Technology Departments - Dr. Olusegun “Segun” Odesina, Associate Dean, School of Engineering, Science, and Technology

- There are over 3,158 students and 132 full-time faculty for Fall 2018.
- CCSU is one of two public schools in CT that offers engineering.
- Enrollment is projected at 3,764 for 2021.
- Overall, CCSU’s goal is to reach an enrollment of 15,000 by 2021.
- Advisors visit community college campuses to be sure CCSU has a presence.
- [See attachments for Department and Program Listing]
- The new engineering building has been approved.
- Shuju Wu reported on behalf of the Department of Computer Electronics & Graphics Technology
 - All programs in the department are ABET or ATMAE accredited.
 - The Cybersecurity program launched last fall and has a healthy enrollment. Currently working with two community colleges on an articulation agreement. Will also seek accreditation. This program is in collaboration with the computer program.
 - Some faculty are re-evaluating course transfer information.
 - An Electrical Engineering program has been proposed as is currently in the institutional approval process. This will be part of the COT’s Engineering Science pathway.
- Peter Baumann reported on behalf of the Engineering Department.
 - Currently developing Mechanical Engineering and Civil Engineering M.S. programs.
 - Work is being done with Middlesex CC to articulate specific electives.
 - CCSU will be offering a CAD course at Middlesex Community College.
- Ravindra Thamma reported on behalf of the Manufacturing & Construction Management Department.
 - There are both undergraduate and graduate programs in the department that are ATMAE accredited.
 - Students can get a scholarship and work opportunities through a partnership with Pratt & Whitney.
 - There is a new Supply Chain M.S. degree that is based on industry needs and enrollment for fall has already started.
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- The Robotics and Mechatronics Technology program is one of the few in the country and is ABET accredited. It is the only program at CCSU working toward industry, the rest work toward theory. It is a mix of electrical courses, mechanical courses, and robotics courses.
- Any COT faculty are welcome to come tour CCSU's labs and discuss how to set up industry partnerships.
- James DeLaura reported on behalf of the Engineering and Technology Education Department.
 - The department is working with Asnuntuck and Tunxis Community Colleges on the A+B Program. This has a goal where if a student is not accepted to CCSU, they can go to a community college and then be automatically accepted to CCSU.
 - The department will come to community colleges to discuss the Engineering and Technology Education Program. Most technology courses transfer under the program.
 - Community college students come to CCSU as members of the Epsilon Pi Tau Honor Society and help with CCSU's chapter induction ceremony.

Regional Center for Next Generation Manufacturing Updates – Dr. Karen Wosczyzna-Birch, Executive Director, College of Technology, Regional Center for Next Generation Manufacturing

- **Epsilon Pi Tau – Gamma Phi Chapter**
 - Looking for student, faculty, and honorary inductees for the May 3rd induction ceremony.
 - EPT is in their 95th year and is the official honor society of ITEEA and ATMAE.
 - Cords will be mailed to individual institutions for graduating students only.
- **CT CLICKs Updates**
 - Currently in the second round of PICSa funding from the French Embassy.
 - Five students applied to bootcamps organized and sponsored by the French Embassy.
 - Sharon Gusky of Northwestern CT CC is travelling to meet with faculty partners in France.
 - Mobin Rastgar Agah of Norwalk CC reported that his students participating in a CLICKs module are designing a tabletop football game using CAD that will be built using 3D printing and laser cutting as part of his Intro to Engineering course.
 - We have also submitted a ERASMUS grant in partnership with a French university that would provide funding to further build faculty relationships with France.
- **CT Apprenticeship Program for Automation & Robotics (CAPRA)**
 - David Gibling of UConn reported on behalf of the CT Apprenticeship Program for Robotics & Automation (CAPRA).
 - There was an initial all with community college partners this past week regarding the scheduling of faculty training on the ABB robots and the ordering of the robotic arms. The ABB IRB140s were selected for use at the community colleges. ABB has offered to let faculty train at their facility in Bloomfield.
 - Working on engaging with manufacturers using surveys for their input on courses needed and learning outcomes.
 - Looking to create a pathway for the community colleges and CCSU for robotics with this program.
 - Faculty not directly involved in CAPRA at this may also be able to train on the robotic arms.
- **Clean Energy Smart Manufacturing Innovation Institute** – This Manufacturing USA Institute had to be moved and is now officially under UCLA.
- **Siemens NX Software** – There opportunity is still there for community colleges to get the software free for one year. Karen Wosczyzna-Birch just came back from their leadership summit where she attended presentations by industry on the many different types of software Siemens is able to provide.
- **Computer Science, Mathematics, and Physics Scholarship Program of Central CT** – This is a National Science Foundation S-STEM Scholarship grant out of CCSU in partnership with Tunxis CC and Manchester CC. They will be holding a Transfer Day at CCSU on March 22.
- **NASA CT Space Grant Consortium** – They have just received notification that they have received further funding. Spring/Summer Call for Proposals is now open and due April 5th.
- **Statewide Manufacturing Instructor Recruitment Events** – These are open for all community colleges to have representatives attend to let retired manufacturing employees know about the opportunities to come be an instructor at their colleges. The next one is March 26th at Goodwin College. Tunxis

Community College will host one on June 13th. We are also looking at more ways to offer professional development to instructors from industry who do not have experience teaching in a classroom.

Engineering Technology Challenge (ETC) – John Birch, Executive Director – ETC

- This program is based on the industry need for professional skills and wanting to start teaching those skills combined with technical skills to high school students.
- The program has 75 students over three programs per academic year.
- The focus is on inner-city students and getting them onto a college campus.
- The goal is to make these students realize that they can succeed in STEM fields.
- ETC is in its 17th year.
- Students learn about DISC profiles, behavioral styles, teamwork, and dealing with difficult people.
- Eric Flynn, Mehrdad Fäézi, and Andrew Angle teach the technical skills of SolidWorks, 3D printing, math and physics.

Upcoming COT Meetings

April 12, 2019 - University of Bridgeport, Bridgeport

May 17, 2019 – Northwestern CT Community College, Winsted

Important Dates

March 22 – CCSU – CSMP Transfer Day – Central CT State University

March 26 – Statewide Manufacturing Instructor Recruitment Event – Goodwin College

May 3 – Epsilon Pi Tau Induction Ceremony – Manchester CC

May 14-16 – EASTEC – West Springfield, MA

June 13 – Statewide Manufacturing Instructor Recruitment Event – Tunxis Community College



School of Engineering, Science, and Technology
Central Connecticut State University

March 8, 2019

CCSU



March 8, 2019

School of Engineering, Science, and Technology at a Glance:

- ❑ Established in 1976 (School of Technology)
- ❑ Renamed in 2007 as School of Engineering and Technology
- ❑ Renamed in 2014 as School of Engineering, Science, and Technology
- ❑ Over 3,158 students-Head Count (Fall 2018)
- ❑ 132 full time faculty (Fall 2018)

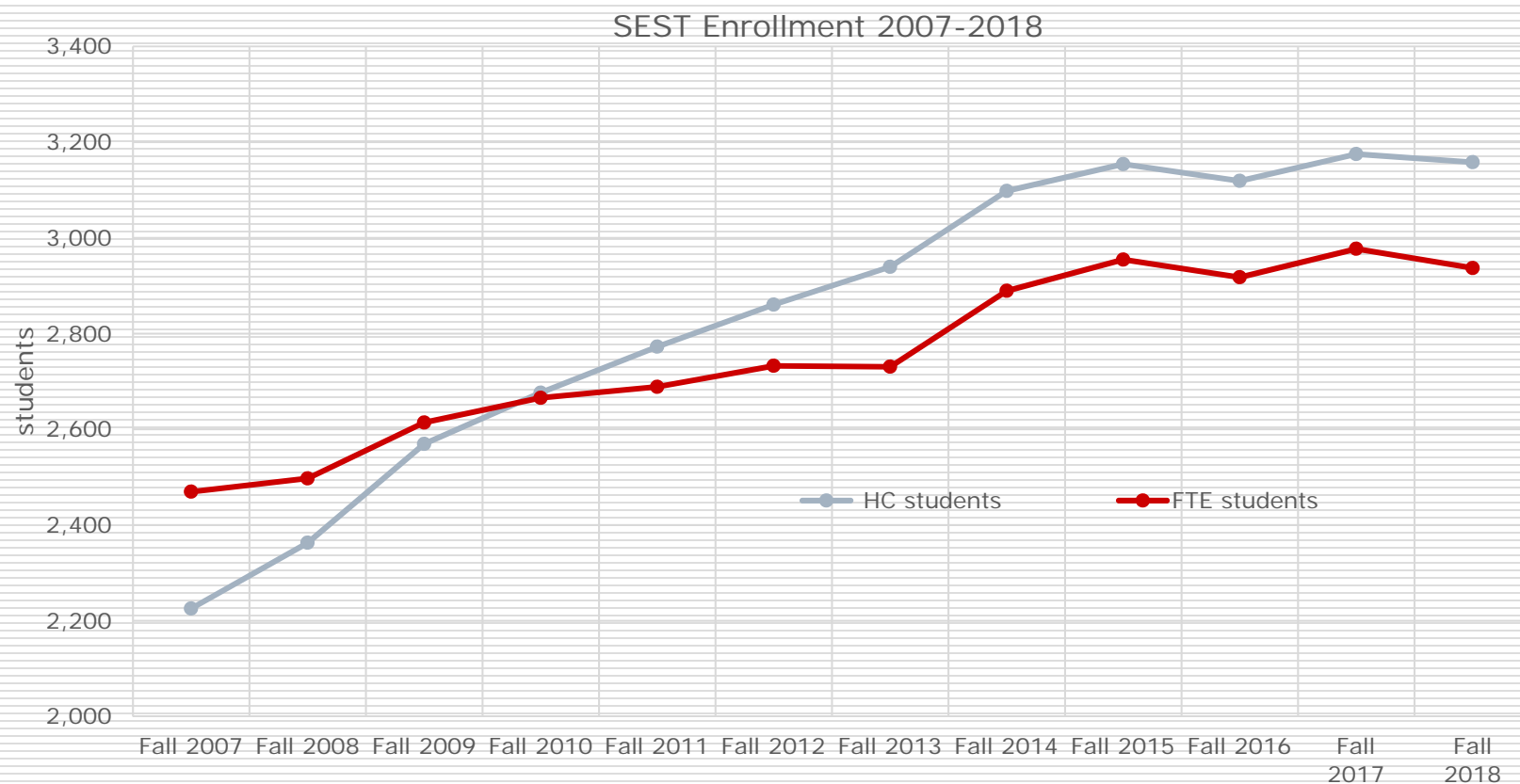
March 8, 2019

School of Engineering, Science and Technology

- ❑ One of two public schools of engineering (technology) in Connecticut
- ❑ Variety of programs enabling internal transfer:
 - ❖ **Engineering**
 - ❖ **Engineering Technology**
 - ❖ **Technology**
 - ❖ **Technology and Engineering Teacher Education**

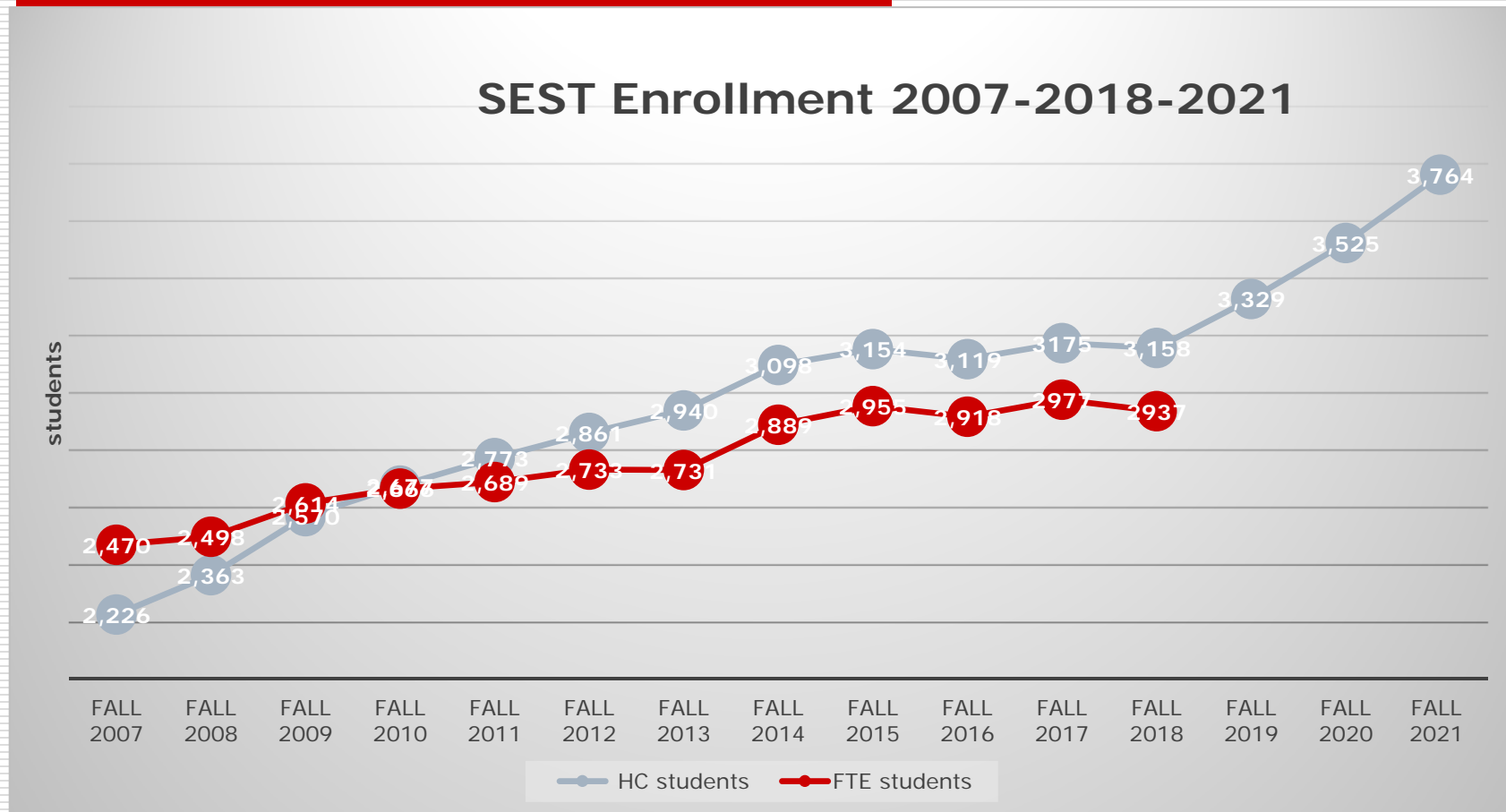
March 8, 2019

SEST ENROLLMENT 2007-2018



3/23/2018

Enrollment Goals



3/8/2019

Departments & Programs

Biology Department

**Biology with specialization in Ecology,
Biodiversity and Evolution Biology (BS)**

**Biology with specialization in
Environmental Science (BS)**

Biological Sciences: Anesthesia, (MS)

**Post-Baccalaureate Teacher Preparation in
Biology for Secondary Education**

**Doctorate of Nursing Anesthesia Practice,
DNAP**

March 8, 2019

Departments & Programs

Biomolecular Sciences Department

Biomolecular Science (BS)

Biochemistry (BS)

Biomolecular Science (MA)

March 8, 2019

Departments & Programs

Chemistry and Biochemistry Department

Biochemistry (BS)

Chemistry, (BS)

March 8, 2019

Departments & Programs

Computer Electronic & Graphics Technology Department

Computer Engineering Technology (BS)

Cybersecurity (BS) New

Electronics Technology (BS)

Electrical Engineering (BS) Pending

Digital Printing and Graphics Technology (BS)

Networking Information Technology (BS)

Cybersecurity Technology Minor

March 8, 2019

Departments & Programs

Computer Science Department

Computer Science Alternative (BS)

Computer Science Honors (BS)

Software Engineering (MS)

Computer Information Technology (MS)

March 8, 2019

Departments & Programs

Engineering Department

Mechanical Engineering (BS)

General Program

Aerospace Specialization

Manufacturing Specialization

Civil Engineering (BS)

Mechanical Engineering Technology (BS)

**Manufacturing Engineering Technology
(BS)**

March 8, 2019

Departments & Programs

Geological Sciences

Earth Sciences (BS)with a specializations in

Environmental Earth Science

Environmental Geology

General Earth Sciences

Geology

Planetary Geology

STEM Education for Certified Teachers (MS)

March 8, 2019

Departments & Programs

Manufacturing & Construction Management **Department**

Construction Management (BS)

Manufacturing Management (BS)

**Robotics and Mechatronics Engineering
Technology (BS)**

Industrial Technology (BS)

Construction Management (MS)

Supply Chain and Logistic Management (MS) New

Technology Management (MS)

March 8, 2019

Departments & Programs

Mathematical Sciences

Mathematics (BA)

Specializations:

Actuarial Science

Statistics

(Several other teacher options online)

Mathematics – General (MA)

Specializations:

Actuarial Science

Computer Science

Statistics

(Several other teacher options online)

Data Mining (MS)

March 8, 2019

Departments & Programs

Physics & Engineering Physics

Physics (BS)

Physics (Certifiable for Secondary Teaching)

March 8, 2019

Departments & Programs

Technology & Engineering Education Department

Technology & Engineering Education (Certifiable for PK-12 Teaching)

STEM Education for Certified Teachers (MS)

**Post-Baccalaureate Teacher Preparation in
Technology and Engineering (k-12)**

March 8, 2019

Facilities-Approved New Engineering Building



Facilities-Approved New Engineering Building

