College of Emerging and Collaborative Studies

Overview and How to Engage

Ozlem Kilic
Interim Vice Provost for Academic Affairs
Curricular Offerings

**COLLABORATIVE COURSES**
- Cross-college collaborative courses
- Pilot or experimental courses
- Gateway and capstone courses on strategic topics

**DEGREES IN EMERGING TOPICS**
- Undergraduate minors and majors
- Certificate programs
- Graduate degrees (potential)

**CUSTOMIZED DEGREES**
- Pre-approved stackable certificates for customization
- Custom degree “shell”
- Industry/Research Experiences
Flexible Pathways for Students

**ENHANCE**
Students can take a CECS course to enhance their major.

**UTK MAJOR**

Students declare a CECS Minor or Certificate for an additional degree credential.

**UTK MAJOR**

Students enroll in a CECS major degree to focus on an emerging topic.

**CECS MAJOR**

Students can customize their degree program for unique specializations.

**CUSTOM DEGREE**
- Custom “shell” CECS courses
- Stackable certificates
- UTK courses

Enhance recruitment to all colleges

Attract new students, retain exploratory students
Majors and Custom Degrees

- Domain Specific Courses
- Stackable Certificates

Minors

- Gateway course
- Capstone course
- Electives

Individual courses on emerging topics

Course...Course
Majors and Custom Degrees

- Domain Specific Courses
- Stackable Certificates

Minors
- Gateway course
- Capstone course
- Electives

Individual courses on emerging topics

ARTS + SCIENCES
BUSINESS
ENGINEERING
COMMUNICATION + INFORMATION

+ + + = DATA SCIENCE MINOR

PLATFORM > BUILD
APPROACH TO DEGREES
## CECS Offerings - Examples

### Courses - 3+ Credit Hours

**Student Example:**
- **BA in Social Work**
- **CECS Elective - Artificial Intelligence**

**Program Plan**
- Home College (Major)

**CECS Courses**
- CECS Interdisciplinary Courses (as Electives)

### Minor - 18 Credit Hours

**Student Example:**
- **BS in Food Science**
- **CECS Minor in Artificial Intelligence**

**Program Plan**
- Home College (Major)
- CECS (Minor)

**CECS Credits**
- Gateway
- Capstone
- CECS Core Courses

**College Credits**
- Approved Electives

### Major - 120 Credit Hours

**Student Example:**
- **BA or BS in Cybersecurity**
- **CECS Major**

**Program Plan**
- CECS Plan (Minor)

**24-36 SCH - CECS Credits**
- Gateway
- Capstone
- CECS Core Courses/Certificates

**96 SCH - College Credits**
- Vol Core
- Approved Electives
## CECS Offerings - Examples

### Courses - 3+ Credit Hours

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### CECS Process

1. **Faculty team proposes a title and description**
2. **Faculty team receives stipend to develop the course syllabi**
3. **Department collaboration and agreement to teach**

- Delivered by CECS
- Delivered by Colleges
### CECS Offerings - Examples

**Courses - 3+ Credit Hours**

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### CECS Process

1. Campus faculty representatives
2. Identify Faculty lead (buyout)
3. Landscape analysis
4. Develop curriculum for minor
5. CECS Proposes Curriculum

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**CECS Process**

- Campus faculty representatives
- Identify campus faculty lead (buyout)
- CECS Program Director and staff support
- Develop curriculum for major
- CECS Proposes Curriculum
Tentative Workplan

PLATFORM > WORKPLAN

AY 2023-24
BUILD
LAUNCH

AY 2024-25
AY 2025-26
SUSTAIN
GROW

AY 2027-28
AY 2028 ++
GRADUATE
Tentative Workplan

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**AY 2023-24**
- LAUNCH

**AY 2024-25**
- BUILD
- DEVELOP
- INITIATE

**AY 2025-26**
- BUILD
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**AY 2027-28**
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**AY 2028 ++**
- GRADUATE
## Tentative Workplan

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### Platform > Workplan

**LAUNCH**
- DS Minor

**DEVELOP**
- DS Major
- Courses, minors

**INITIATE**
- Process for New Topics
- Custom degree
- Stackable Certificates
Tentative Workplan

**LAUNCH**
- AY 2023-24: DS Minor

**DEVELOP**
- AY 2024-25:
  - DS Major
  - Courses, minors
  - Stackable Certificates

**INITIATE**
- AY 2025-26:
  - Process for New Topics
  - Custom Degree
  - Stackable Certificates

**BUILD**
- AY 2027-28:
  - Majors (emerging topics)
  - Stackable Certificates

**SUSTAIN**
- AY 2028 ++:
  - Custom Degree
  - Majors (…)
  - Stackable Certificates

**ASSESS**
- ASSESS DS Minor
Tentative Workplan

**LAUNCH**
- DS Minor

**DEVELOP**
- DS Major
- Courses, minors
- Stackable Certificates

**INITIATE**
- Process for New Topics
- Custom Degree
- Stackable Certificates

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**AY 2023–24**
- LAUNCH: DS Major
- DEVELOP: Courses, minors
- INITIATE: Stackable certificates

**AY 2024–25**
- LAUNCH: Custom degree
- DEVELOP: Majors (emerging topics)
- ASSESS: DS Minor

**AY 2025–26**
- LAUNCH: Custom degree
- DEVELOP: Majors (…)
- ASSESS: DS Minor

**AY 2026–27**
- LAUNCH: Custom degree
- DEVELOP: Majors (…)
- ASSESS: DS Minor

**AY 2027 ++**
- LAUNCH: Custom degree
- DEVELOP: Majors (…)
- ASSESS: DS Minor
Tentative Workplan

LAUNCH
- DS Minor

DEVELOP
- DS Major
- Courses, minors

INITIATE
- Process for New Topics
- Custom degree
- Stackable Certificates

BUILD

AY 2023-24
- LAUNCH: DS Minor
- DEVELOP: DS Major
- INITIATE: Process for New Topics

AY 2024-25
- LAUNCH: Custom degree
- DEVELOP: Majors (AI, Cyber, …)
- INITIATE: Custom Degree

AY 2025-26
- LAUNCH: Custom degree
- DEVELOP: Majors (AI, Cyber, …)
- INITIATE: New Topics

AY 2026-27
- LAUNCH: Custom degree
- DEVELOP: Majors (…)
- INITIATE: New Topics

AY 2027 ++
- LAUNCH: DS Minor
- DEVELOP: Majors (…)
- INITIATE: New Topics
- ASSESS: DS Minor

GRADUATE

THE FIRST DS COHORT!

CONTINUE:
LAUNCH
DEVELOP
ASSESS
CECS Service Model

**Rapidly respond to market needs**

*Offer courses and degrees at larger scale*

**MOVE QUICKLY**

**GROWTH FOR COLLEGES**

→ Offer students programs on relevant and emerging topics
→ Most instruction delivered in colleges

**SIMPLIFY COLLABORATION**

Simplify and support collaboration across colleges

*Share investment costs, revenue, minimize barriers*

**DIFFERENTIATOR FOR STUDENTS**

→ Dynamic, pedagogically innovative, cross-disciplinary instruction
→ Access to courses and degrees on timely topics
→ Ability to specialize and customize to meet career goals
→ Cohort-based student experience
→ Strong industry partnerships
In the Works

- Minor and major on “Applied Interdisciplinary AI”*
- Minor and major on "Applied Interdisciplinary Cybersecurity, Privacy"*
- Team Science courses and certificate
- Applied Emerging Topics courses and certificate
- Connected World/Internet of Everything/Broadband courses and certificate

* Official name TBD by campus faculty representatives
On Radar

HUMAN-COMPUTER INTERACTION/SCIENCE TECHNOLOGY SOCIETY

SUSTAINABILITY

ONE HEALTH
Brand New Courses in Fall 2023/Spring 2024

- AI 101 – Introduction to the World of AI
- CYBER 101 - Introduction to Cybersecurity Concepts
- AI 401/501 – Exploring the World of AI
- ECS 501 - Introduction to Transdisciplinary Research Concepts
Data Science Case Study - It Takes a Village…

51 campus courses; 5 new courses

Katherine Ambroziak
Chuck Collins
Jeff Fairbrother
Virginia Kupritz
Lane Morris
Teresa Walker
Dwayne Shoemaker
Matthew Therriot
Julie Longmire
Suzie Allard
Hollie Raynor
Sadie Hutson
Sherry Cummings
RJ Hinde

Vasileios Maroulas
Nicholas Nagle
Alex Bentley
Joshua Rosenberg
Louis Finnotti
Josh Fagan
Rebecca Frank
Nana Bryan
Karee Dunn
Samantha Ehrlich
Julia Jaekel
Jennifer Anne Morrow
Loius Marshall Rocconi
Jeanie Lim

Lisa Yamagata-Lynch
Chuck Cwiek
Michael Galbreth
David Keffer
John Kobza
Jim Ostrowski
Marshall Prado
Greg Peterson
Diane Kelly
Adam Petrie
Meg Staton
Monica Ihli
Jada Thompson
Marshall Prado

Jiangen He
Ben Horne
Mike Berry
Ming Jin
Freddie Kojima
Bill Nugent
Russell Zaretzki
Jeneva Clark
Kostas Vogiatzis

Monthly Faculty Council meetings
Semesterly Executive Council meetings
Annual Advisory Board Meeting
College of Emerging and Collaborative Studies

Working Group:
Alex Bentley, CAS
Mike Bookmyer, Finance
Kristi Gordon, CEHHS
Gary Gray, Finance
Sarah Lowe, CAD
Abebe Rorissa, CCI