

**MINUTES**  
**GRADUATE CURRICULUM COMMITTEE**  
**FEBRUARY 13, 2020**  
**238 GRADUATE LIFE CENTER, 2:15-4:15PM**

**Present:** Madlyn Frisard (Chair); Nicole Akers (University Registrar non-voting); Gary Costello (University Registrar non-voting); Rachel Diana (Science); William Huckle (Graduate School); John Tedesco (Liberal Arts & Human Sciences); Linda Wallace (Business).

**Visitors:** Frances McCarty (STAT); Parviz Ghandforoush (MIT)

The meeting was called to order at **2:15 PM** by, Madlyn Frisard, Chair.

A motion to adopt the agenda was made, seconded, and approved.

**New Business:**

**College of Natural Resources & Environment**

**Course:** GEOG 5134 (GEOS 5844) Advanced Interdisciplinary Issues and Ethics in Water Resources (New) Fall 2020 (CM-5572)

Motion was made and seconded to **APPROVE** GEOG 5134 (GEOS 5844) Advanced Interdisciplinary Issues and Ethics in Water Resources (New) Fall 2020 (CM-5572) **with minor required modifications:**

- Catalog Description: Edit to read, “Issues and ethics related to water resources, water as a hazard upon human (infrastructure, economy) and ecology (rivers, groundwater) systems, water- and vector-borne disease, climate change, dams, and eutrophication. Multidimensionality of water resources. Pre: Graduate standing. (3H, 3C)”
- Objective 5: Begin with “Analyze”
- Justification
  - Paragraph 2: Include that this course was conjoint.
  - Paragraph 3: End first sentence with “...independent thought.”  
Delete last sentence.

*With approval of GEOG 5134 (GEOS 5844), **discontinue** GEOG 5134G Advanced Water, Hazards, and Development.*

**Motion passed unanimously.**

**College of Science**

New Certificate

**Certificate:** Establishment of Graduate Certificate: Applied Statistics (ASTC) (New) effective

for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5323)

Motion was made and seconded to **APPROVE** Graduate Certificate: (Revised) (2020); effective for students graduating in calendar year 2020 (CM-) **with no modifications**.

**Motion passed unanimously.**

## **Pamplin College of Business**

**Course:** MGT 5824 Technology-based Entrepreneurship (New) Fall 2020 (CM-5430)

Motion was made and seconded to **APPROVE** MGT 5824 Technology-based Entrepreneurship (New) Fall 2020 (CM-5430) **with minor required modifications**:

- Catalog Description: Edit to read “Entrepreneurship in technology-based startups, corporate, and public-sector organizations operating in digital environments. Experiential activities in commercialization and resource mobilization strategies. Design and validation of digital business models for launching technology-based ventures. Assessment and pursuit of entrepreneurial opportunities in cybersecurity, automation, artificial intelligence, and machine learning. Master of Information Technology (MIT) students only. Pre: 5804 or ECE 5484. (3H, 3C)”
- Learning Objectives
  - Objective #1: Edit “disruptive” to “transformative”
  - Objective #2: Edit to read, “Utilize customer discovery process to validate potential commercial success of artificial intelligence/machine learning”
  - Objective #4: Edit “venture” to “ventures”
  - Objective #7: Edit “manage” to “propose”

**Motion passed unanimously.**

### New Certificate

**Certificate:** Establishment of Graduate Certificate: Cybersecurity Management (CSMC) (New) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5574)

Motion was made and seconded to **APPROVE** the Establishment of Graduate Certificate: Cybersecurity Management (CSMC) (New) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5574) **with minor required modifications**:

- Coversheet: Edit effective graduation calendar year to “2020”
- Edit starting term to “Summer 2020” and first award term to “Fall 2020”
- Learning Outcomes
  - Outcome #1: Edit to begin “Craft corporate and business...”
  - Outcome #3: Edit to begin “Apply various business tools...”
- Target Audience: Change “master’s” to “graduate” students
- Time to Complete: Include plan for students who do not complete Certificate in 2 semesters
- Admission: Remove paragraph #3 beginning with “For students interested in...”

**Motion passed unanimously.**

**Certificate:** Establishment of Graduate Certificate: Cybersecurity Policy (CSPC) (New) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5573)

Motion was made and seconded to **APPROVE** the Establishment of Graduate Certificate: Cybersecurity Policy (CSPC) (New) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5573) **with minor required modifications:**

- Coversheet: Edit effective graduation calendar year to “2020”
- Edit starting term to “Summer 2020” and first award term to “Fall 2020”
- Target Audience: Change “master’s” to “graduate” students
- Time to Complete: Include plan for students who do not complete Certificate in 2 semesters
- Admission: Remove paragraph #3 beginning with “For students interested in...”

**Motion passed unanimously.**

Revised/Rename Certificate

**Certificate:** Graduate Certificate: Business Data Analytics (BDAC) (Rename/Credit Hour Change) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5568)

Motion was made and seconded to **APPROVE** Graduate Certificate: Business Data Analytics (BDAC) (Rename/Credit Hour Change) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5568) **with minor required modifications:**

- Coversheet: Edit effective graduation calendar year to “2020”
- Edit starting term to “Summer 2020” and first award term to “Fall 2020”
- Target Audience: Change “master’s” to “graduate” students

- Time to Complete: Include plan for students who do not complete Certificate in 2 semesters
- Curriculum Requirements and Descriptions:
  - ACIS 5524: Edit prerequisite to read, “Pre: 5504”

*With approval of Graduate Certificate: Business Data Analytics (BADC),  
discontinue Graduate Certificate: Business Analytics and Data Mining (BADC),  
effective Fall 2021.*

**Motion passed unanimously.**

**Certificate:** Graduate Certificate: Cybersecurity Technologies (CSTC) (Rename/Credit Hour Change/ CIP Code Change) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5571)

Motion was made and seconded to **APPROVE** Graduate Certificate: Cybersecurity Technologies (CSTC) (Rename/Credit Hour Change/ CIP Code Change) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5571) **with minor required modifications:**

- Coversheet: Edit effective graduation calendar year to “2020”
- Edit starting term to “Summer 2020” and first award term to “Fall 2020”
- Target Audience: Change “master’s” to “graduate” students
- Time to Complete: Include plan for students who do not complete Certificate in 2 semesters
- Required Courses: Remove “MIT students only” from ECE 5484 and ECE 5480
- Administration
  - Edit “Fall 2019” to “Fall 2021” in paragraph beginning “Students who have completed....”
  - Edit “Spring 2020” to “Summer 2020” in paragraph beginning “Students whose first course...”

*With approval of Graduate Certificate: Cybersecurity Technologies (CSTC),  
discontinue Graduate Certificate: Information Security and Analytics (ISC),  
effective Fall 2021.*

**Motion passed unanimously.**

**Certificate:** Graduate Certificate: Information Systems Design (ISDC) (Rename/Credit Hour Change) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5569)

Motion was made and seconded to **APPROVE** Graduate Certificate: Information System Design (ISDC) (Rename/Credit Hour Change) effective for students graduating in calendar year 2020; first term and year to enroll: Summer 2020; first term and year to graduate Fall 2020 (CM-5569) **with minor required modifications:**

- Coversheet: Edit effective graduation calendar year to “2020”
- Title: Change “System” to “Systems”
- Edit starting term to “Summer 2020” and first award term to “Fall 2020”
- Target Audience: Change “master’s” to “graduate” students
- Time to Complete: Include plan for students who do not complete Certificate in 2 semesters

*With approval of Graduate Certificate: Information System Design (ISDC), **discontinue** Graduate Certificate: Database Management (DMC), effective Fall 2021.*

**Motion passed unanimously.**

#### Revised Certificate

**Certificate:** Graduate Certificate: Information Technology Management (ITMC) (Revised/Credit Hour Change) effective for students graduating in calendar year 2020 (CM-5567)

Motion was made and seconded to **APPROVE** Graduate Certificate: Information Technology Management (ITMC) (Revised/Credit Hour Change) effective for students graduating in calendar year 2020 (CM-5567) **with minor required modifications:**

- Coversheet: Edit effective graduation calendar year to “2020”
- Edit starting term to “Summer 2020” and first award term to “Fall 2020”
- Need/Justification
  - Edit last sentence to read, “This certificate seeks to present a useful subset of these technologies.”
- Learning Outcomes: Fix inconsistent capitalizations throughout
  - Outcome #1: Begin with “Exhibit” or “Gain”
  - Outcome #3: Begin with “Distinguish”
  - Outcome #4: Begin with “Demonstrate”
  - Outcome #5: Begin with “Use of”
- Target Audience: Change “master’s” to “graduate” students
- Time to Complete: Include plan for students who do not complete Certificate in 2 semesters
- Administration
  - Edit “Fall 2019” to “Fall 2021” in paragraph beginning “Students who have completed...”
  - Edit “Spring 2020” to “Summer 2020” in paragraph beginning

“Students whose first course...”

**Motion passed unanimously.**

**Certificate:** Graduate Certificate: Software Development (SWDC) (Revised) effective for students graduating in calendar year 2020 (CM-5566)

Motion was made and seconded to **APPROVE** Graduate Certificate: Software Development (SWDC) (Revised) effective for students graduating in calendar year 2020 (CM-5566) **with minor required modifications:**

- Coversheet: Edit effective graduation calendar year to “2020”
- Edit starting term to “Summer 2020” and first award term to “Fall 2020”
- Administration
  - Edit “Spring 2019” to “Fall 2021” in paragraph beginning “Students who have completed...”
  - Edit “Spring 2020” to “Summer 2020” in paragraph beginning “Students whose first course...”

**Motion passed unanimously.**

**Certificate:** Graduate Certificate: Health Information Technology (HITC) (Revised/Credit Hour Change) effective for students graduating in calendar year 2020 (CM-5346)

Motion was made and seconded to **APPROVE** Graduate Certificate: Health Information Technology (HITC) (Revised/Credit Hour Change) effective for students graduating in calendar year 2020 (CM-5346) **with minor required modifications:**

- Include verbiage regarding how the change in credit hours impacts the Learning Outcomes.

**Motion passed unanimously.**

## **ADJOURNMENT**

A motion was made and seconded to adjourn the meeting at **4:15 PM**.

Respectfully Submitted,  
Nicole Akers  
*Office of the University Registrar*