

# University Curriculum Committee

November 13, 2023

ZOOM

2:30pm

## Calling of the Roll

## Announcements

## Old Business

- Survey of Learning Concentration in BS University Studies
  - Changing the name of the concentration from Survey of Education (Non-Licensure) due to the establishment of that concentration within the College of Education.
  - Updating Curriculum to align with the change and to add and remove courses as approved and denied by the appropriate department Chairs.
  
- Survey of Military Operations Concentration in BS University Studies
  - Adding a new concentration in Military Operations to assist the students who transfer to APSU with a substantial number of transfer hours. By creating this concentration, it will assist these students in being eligible to receive financial aid due to the recent changes in funding.

## Meeting Minute Approval

- Approval of October 16, 2023 minutes

## Consent Agenda Items – All items require final approval by the Provost/SVP Academic Affairs

- **Course Number Update** **Implementation Fall 2024**
  - NSS 2100 – Current and Emerging Threats to US Security
    - Updating the course number from 3500 to 2100 as the content is more applicable to a lower division course.
  
  - NSS 3600 – Global vs. Regional Power Conflicts
    - This course is being moved from a 2000 level to a 3000-level course as the content is more in advanced and better aligned with the 3000 level requirements.

- **Course Title Update** **Implementation Fall 2024**
  - BUS 5910 – Special Topics in Business
    - Updating the course title from Special Topics in Management to Special Topics in Business. This will assist with the need to open the course up to all business students.
  - MATH 4320 – Machine Learning II
    - Updating the course title from Advanced Machine Learning to Machine Learning II. This is to assist with the duplicate title courses and alignment with MATH utilizing “Advanced” in the graduate course titles.
  
- **Course Prerequisite Update** **Implementation Fall 2024**
  - BUS 5910 – Special Topics in Business
    - Removing the prerequisite of Permission of Instructor due to the need of opening the course up to all business majors.
  - CULA 1310 – Fundamentals of Baking
    - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
  - CULA 1320 – Culinary I (Fundamentals)
    - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
  - CULA 1321 – Advanced Baking and Pastry
    - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
  - CULA 1325 – Culinary II (Fabrication)
    - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
  - CULA 1330 – Garde Manger
    - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
  - CULA 2250 – Professional Catering
    - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
  - CULA 2331 – Cooking for Special Diets
    - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.

- CULA 2351 – Plated Desserts and Presentation
  - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
- CULA 2352 – Hot and Cold Desserts
  - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
- CULA 2373 – Gourmet Foods
  - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
- CULA 2376 – International Food
  - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
- CULA 2380 – Culinary Internship
  - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
- CULA 2390 – Culinary Capstone
  - Adding a necessary prerequisite of CULA 1200 (Sanitation and Food Safety) as this course is needed as a basic preparation course for all other CULA courses taught in the kitchen.
- STAT 4170 – Data Visualization and Exploration
  - Updating the prerequisite to MATH 1910 (Calculus I) and instructor permission
- **Course Deletions** **Implementation Fall 2024**
  - MUS 2100 – Music in America
    - This course has not been taught in six years.
  - MUS 3080 – Music for Elementary Teachers
    - This course has not been taught in six years.
  - MUS 3515 – Governor’s Singers
    - This course has not been taught in six years.
- **Course Description Update** **Implementation Fall 2024**
  - MATH 4310 – Machine Learning I
 

**Old Description:**  
This course provides a broad instruction to machine learning and statistical pattern recognition. Topics include: supervised learning (parametric/non-parametric learning, neural networks,

support vector machines); unsupervised learning (clustering, dimensionality reduction, deep learning); learning theory and best practices for applying machine learning algorithms to areas including computer vision, text processing, and bioinformatics.

**New Description:**

This course provides students with skills related to developing machine learning and data science processes, including data preprocessing, feature engineering, supervised learning (parametric/nonparametric, linear and nonlinear models, neural networks), unsupervised learning, model optimization, regularization, and a more formal understanding of how and why they work. Through several “hands-on” projects, students will have an opportunity to experiment with various machine learning models and apply them to real-world data sets.

- MATH 5310 – Advanced Machine Learning I

**Old Description:**

This course provides a broad instruction to machine learning and statistical pattern recognition. Topics include: supervised learning (parametric/non-parametric learning, neural networks, support vector machines); unsupervised learning (clustering, dimensionality reduction, deep learning); learning theory and best practices for applying machine learning algorithms to areas including computer vision, text processing, and bioinformatics.

**New Description:**

This course provides students with skills related to developing machine learning and data science processes, including data preprocessing, feature engineering, supervised learning (parametric/nonparametric, linear and nonlinear models, neural networks); unsupervised learning, model optimization, regularization, and a more formal understanding of how and why they work. Through several “hands-on” projects, students will have an opportunity to experiment with various machine learning models and apply them to real-world data sets.

- STAT 5310 – Advanced Machine Learning I

**Old Description:**

This course provides a broad instruction to machine learning and statistical pattern recognition. Topics include: supervised learning (parametric/non-parametric learning, neural networks, support vector machines); unsupervised learning (clustering, dimensionality reduction, deep learning); learning theory and best practices for applying machine learning algorithms to areas including computer vision, text processing, and bioinformatics.

**New Description:**

This course provides students with skills related to developing machine learning and data science processes, including data preprocessing, feature engineering, supervised learning (parametric/nonparametric, linear and nonlinear models, neural networks); unsupervised learning, model optimization, regularization, and a more formal understanding of how and why they work. Through several “hands-on” projects, students will have an opportunity to experiment with various machine learning models and apply them to real-world data sets.

# Action Agenda Items

## College of Arts and Letters

### Department of Art and Design – represented by McLean Fahnestock

#### Undergraduate New Course

Implementation Fall 2024

Final approval required by the Provost/SVP Academic Affairs

1. ART 4170 – Video Art III
  - Advanced projects and individual inquiries in time-based art to further develop conceptual and technical skills in the medium.
  - All studio area courses are in a sequence of three and this class is essential for BA Studio Students who have to complete a series of three courses in the studio area.

### Department of Languages and Literature – represented by Daniel Shea

#### Undergraduate New Course

Implementation Fall 2024

Final approval required by the Provost/SVP Academic Affairs

2. ENGL 1005 – Critical Reading and Writing at the University
  - The course develops students’ reading and writing skills in preparation for ENGL 1010 and ENGL 2330. Students must achieve a “C” or higher to pass the course and gain exemption from Enhanced sections of ENGL 1010 and ENGL 2330.
  - This course is designed to help prepare Opportunity Admitted students in need of Enhanced Writing and/or Reading.

#### Undergraduate Program Modification

Implementation Fall 2024

Final approval required by the Provost/SVP Academic Affairs

3. English, BA
  - Updating the program modality to include 100% online offering.
  - Removing ENGL 3100 (Studies in British Literature I), ENGL 3130 (Studies in British Literature II), and ENGL 3150 (Shakespeare) from the upper division major requirements.
  - Making it an option to complete either ENGL 3010 (Studies in American Literature I) or ENGL 3020 (Studies in American Literature II) and making it an option to complete one of those courses.
  - Adding option to complete one course from ENGL 3430 (Studies in African American Literature I) or ENGL 3440 (Studies in African American Literature II).
  - Adding LING 2020 (Dialects in English), LING 4041 (How Words Works), LING 4042 (How Sounds Work), LING 4080 (Theories in Second Language Acquisition) to the LING area.
  - Changing a complete three electives option to Complete five and adding ENGL 3230 (Writing Creative Non-Fiction), LING 4041 (How Words Works), and LING 4042 (How Sounds Work),

as additional elective options in this area.

4. World Languages, BA
  - Updating the major name from Foreign Languages to World Languages to reflect the 21<sup>st</sup> century nomenclature and best practices.

## **College of Behavioral and Health Sciences**

### **Department of Leadership – represented by Kathryn Woods**

#### **Graduate Program Modification**

**Implementation Fall 2024**

Final approval required by the Provost/SVP Academic Affairs

5. Project Management Certificate
  - Terminating the Program Management Certificate due to low enrollment and the department lacking the credentialed faculty to teach two of the required courses. These courses have been taught by an adjunct, who must be PMP certified, which proves problematic.

## **College of Science, Technology, Engineering, and Mathematics**

### **Department of Engineering Technology – represented by Matthew Anderson**

#### **Undergraduate New Course**

**Implementation Fall 2024**

Final approval required by the Provost/SVP Academic Affairs

6. ENGT 3290 – Communication Systems
  - Overview of Communication Systems, Modulation and Demodulation, Transmitter and Receiver Digital Communication and Internet, Waveguides, Radar, and Fiber optics.
  - Part of the continuous review and improvement process of ABET to renew and update course offerings for industry standards.
7. ENGT 4840 – Linear Electronics
  - Linear Electronics circuits and devices; circuits applications; analyzing, and performance modeling of operational amplifiers and other devices. Students will also develop a project proposal for the following Electrical Capstone course.
  - Part of the continuous review and improvement process of ABET to renew and update course offerings for industry standards.

## 8. ENGT 4885 – Electrical Capstone

- This course includes a culmination project and is a continuation of the work initiated in ENGT 4840 and provides an integrated learning experience for students. Seniors collaborate in teams to solve a real-life problem relevant to an electrical engineering process or system within an industrial context. Emphasis is placed on the design process, the technical aspects of the design, and mapping the proposed design to project completion.
- Part of the continuous review and improvement process of ABET to renew and update course offerings for industry standards.

### **Undergraduate Program Modification**

**Implementation Fall 2024**

Final approval required by the Provost/SVP Academic Affairs

## 9. Manufacturing Engineering Technology Concentration in BS Engineering Technology

- Adding ENGT 4210 (Industrial Automated Systems) to the concentration guided electives.

## 10. Mechanical Engineering Technology Concentration in BS Engineering Technology

- Removing ENGT 3330 (Hybrid Vehicle Systems), ENGT 3720 (Architectural Design), ENGT 3890 (Mechatronics), and ENGT 4720 (Advanced Computer Aided Design) from the concentration guided electives.
- Adding ENGT 4210 (Industrial Automated Systems) to the concentration guided electives.

## 11. Electrical Engineering Technology Concentration in BS Engineering Technology

- Removing ENGT 3280 (Communication Systems I), ENGT 4220 (Communication Systems II), and ENGT 4250 (Linear Electronics and Capstone Experience) from the upper division concentration requirements.
- Adding ENGT 3290 (Communication Systems), ENGT 4840 (Linear Electronics), and ENGT 4885 (Electrical Capstone) to the upper division concentration requirements.
- Removing ENGT 4120 (Sensors and Vision Systems) from the concentration guided electives.

### **Department of Mathematics and Statistics – represented by Ramanjit Sahi**

#### **Undergraduate Program Modification**

**Implementation Fall 2024**

Final approval required by the Provost/SVP Academic Affairs

## 12. Statistics Concentration in BS Mathematics

- Adding MATH 4321 (Introduction to Data Analysis and Programming) as an option to the programming requirement.

## 13. Data Science Concentration in BS Mathematics

- Moving the option of CSCI 1010/1011 (Intro to Programming I and lab) or CSCI 2000 (Programming for STEM) from concentration requirements to concentration guided electives.
- Removing STAT 4290 (Predictive Analytics), STAT 4120 (Regression Analysis), and STAT 4140 (Time Series Analysis) from the concentration requirements.

- Changing the elective option from Complete two from MATH or STAT 3000-4999 to complete nine hours from: MATH 3000 (Discrete Mathematics), STAT 3250 (Statistical Methods), STAT 4120 (Intro to Regression Analysis), STAT 4140 (Intro to Time Series Analysis), STAT 4200 (Intro to SAS Programming), STAT 4290 (Intro to Predictive Analytics), CSCI 1010/1011 (Intro to Programming I and Lab), or CSCI 2000 (Programming for STEM).

## **Martha Dickerson Eriksson College of Education**

### **Department of Teaching and Learning – represented by Benita Bruster**

#### **Graduate New Certificate**

**Implementation Fall 2024**

Final approval required by the President

#### 14. Teaching Licensing Non-Degree Certificate

- This certificate is designed to assist those who have a major outside of Education earn a teacher licensure without having to pursue a graduate program. The new certificate assists with the teacher shortages and obtaining a teaching position.

#### 15. PreK-3 Early Childhood Certificate

- This program is designed to allow currently licensed educators to complete the required coursework to add on the Early Childhood Education PreK-3 endorsement to their current teaching license.

#### **Graduate Program Modification**

**Implementation Fall 2024**

Final approval required by the Provost/SVP Academic Affairs

#### 16. Grow Your Own Post-Baccalaureate Certificate

- Removing EDUC 5620 (EdTPA Seminar) as this is no longer a state requirement for licensure.

## **University College**

### **University Studies – represented by Loretta Griffy**

#### **Undergraduate Program Modification**

**Implementation Fall 2024**

Final approval required by the Provost/SVP Academic Affairs

#### 17. Culinary Arts Concentration in AAS Professional Services

- Removing CULA 1340 (Dining Room Service), CULA 2250 (Professional Catering), CULA 2300 (Food and Beverage Management), and CULA 2375 (Purchasing and Cost Control) from the concentration requirements.



- Adding CULA 1310 (Fundamentals of Baking), CULA 2376 (International Food), CULA 2380 (Culinary Internship) and Complete one from CULA 2300 (Food and Beverage Management) or CULA 2375 (Purchasing and Cost Control) to the concentration requirements.
- Updating the electives by removing CULA 1310 (Fundamentals of Baking), CULA 2376 (International Food) and adding CULA 1340 (Dining Room Service), CULA 2250 (Professional Catering), and CULA 2390 (Culinary Capstone).