CURRICULUM COMMITTEE REPORT

The Curriculum Committee met on October 5th, 2021 and is recommending the following courses to the Graduate Board for approval at its October 28th meeting.

New Courses:

COS 542 Cloud Computing

COS 573 Computer Vision

MBA 637 Global Supply Chain Networks

Modifications:

BUA 601 Data Analysis for Business

ECE 515 Random Variables and Stochastic Processes

ECE 585 Fundamentals of Wireless Communication

MBA 609 Financial Statement Analysis

MBA 626 Management of Contemporary Organizations

MBA 649 Management Policy

MBA 651 Financial Management

MBA 670 Managerial Marketing

SED 505 Diversity of Development in Childhood

September 30, 2021

To: **Curriculum Committee:**
Scott Delcourt
Qian Xue
Steve Evans
Craig Mason
Grant Miles
Josh Kelley
Deborah Rollins
Lisa Stilley
Dagmar Moravec

Fr: Trish Perry, Administrative Specialist, Grad School

Re: **Curriculum Committee, October 5th, 2021 Via Zoom**

The following courses will be presented on **Tuesday, October 5th, 2021, at 3:00 pm**

1. 3:00-3:10 **COS 541** Phillip Dickens

2. 3:10-3:20 **COS 573** Terry yoo

3. 3:30-4:00 (New) **MBA 637** Jamie ballinger
(Modifications) BUA 601, MBA 609, MBA 626, MBA 649, MBA 651, MBA 670

No Presentations Required

ECE 515 Random Variables and Stochastic Processes

ECE 585 Fundamentals of Wireless Communication

SED 505 Diversity of Development in Childhood

THE UNIVERSITY OF MAINE

NEW COURSE PROPOSAL/MODIFICATION/ELIMINATION FORM FOR GRADUATE COURSES

Graduate course proposals, modifications, or eliminations must be submitted to the Graduate School no later than the 3rd of each month. Please refer to the Graduate School website for the Curriculum Committee meetings schedule. Electronic signatures and submission is required.

Please return the completed e-form with appropriate signatures and documentation to the Graduate School by saving the form to your desktop and sending as an attachment to graduate@maine.edu. Please include in the subject line 'Course Proposal' and the course designator and number.

GRADUATE PROGRAM/UNIT School of Computing and Information Science

COURSE DESIGNATOR COS COURSE NUMBER 542 EFFECTIVE SEMESTER Spring, 2022

COURSE TITLE Cloud Computing

REQUESTED ACTION

NEW COURSE (check all that apply, complete Section 1, and submit a complete syllabus):

- [ ] New Course
- [x] New Course with Electronic Learning (distance synchronous)
- [ ] Experimental

MODIFICATION (Check all that apply and complete Section 2):

- [ ] Designator Change
- [ ] Number Change
- [ ] Title Change
- [ ] Description Change
- [ ] Prerequisite Change
- [ ] Credit Change
- X Cross Listing (must be at least 400-level) COS 442
- [ ] Other (specify)

ELIMINATION:

Course Designator

ENDORSEMENTS

Please sign using electronic signatures. If you do not already have a digital signature, please click within the correct box below and follow the on-screen instructions.

Leader, Initiating Department/Unit(s)

College(s) Curriculum Committee Chair(s) (If applicable)

Thane Fremouw Digitally signed by Thane Fremouw Date: 2021.05.13 09:55:04 -04'00'

College Dean(s)

Timothy M. Cole May 12, 2021

Graduate School (Sign and date)

1 Courses cross listed below 400-level require the permission of the Graduate School.

SECTION 1 (FOR NEW COURSE PROPOSALS)

Proposed Catalog Description (include designator, number, title, prerequisites, credit hours):

The National Institute of Stands and Technology (NIST) defines cloud computing as "a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction." This course will study the technologies underpinning the rapid expansion of this new computing paradigm, the new problem-solving capabilities enabled by the cloud, and provide the student with hands-on experience in utilizing cloud services for scientific research. It will focus on the virtualization of computational resources, cloud storage models, distributed computing in the cloud, and important applications areas such as big data analytics. Prerequisites: COS 331 or equivalent with a minimum grade of C-. COS 441 and COS 542 both can not be taken for degree credit. 3credits

Components (type of course/used by Student Records for MaineStreet) – *Multiple selections are possible for courses with multiple components*:

- ☐ Applied Music
- ☐ Clinical
- ☐ Field Experience/Internship
- ☐ Research
- ☐ Studio
- ☐ Laboratory
- ☒ Lecture/Seminar
- ☐ Recitation
- ☐ Independent Study
- ☐ Thesis

Text(s) planned for use:

Cloud Computing for Science and Engineering by Ian Foster and Dennis Gannon. An on-line version of the book is available for free from https://cloud4scieng.org/chapters.

Course instructor (include name, position, teaching load):

Dr. Phillip Dickens, Associate Professor of Computer Science, School of Computing and Information Science. Assigned workload is 3 courses/year.

Reason for new course:

Cloud computing has become a critical component of the national computational infrastructure. Cloud computing has brought to individuals and corporations the tools and technologies required for large-scale scientific computing, big data processing/analytics, and global web services deployment that has heretofore been largely unavailable. Currently, there are no course offerings on campus through which students can become trained and proficient in the understanding/use of cloud technologies. This course fills that important gap in our student's education.

Does the course addition require additional department or institutional facilities, support and/or resources, e.g. new lab facilities, computer support, and services, staffing (including graduate teaching assistants), or library subscriptions and resources?

- (●) No. The department will not request additional resources for this course.
- ( ) Yes. Please list additional resources required and note how they will be funded or supported.

What other departments/programs are affected (e.g. course overlap, prerequisites)? Have affected departments/programs been consulted? Any concerns expressed? Please explain.

This course will be listed by the emerging Data Science and Engineering program as one of their class offerings. They have been consulted and have no concerns,

How often will this course be offered? Will offering this course result in overload salary payments, either through the college or CED, either to the instructor of this course or to **anyone** else as a result of rearranging teaching assignments?

Once every two years.

COS 542: Cloud
Computing Spring, 2022

Course Description	The National Institute of Stands and Technology (NIST) defines cloud computing as "a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction." This course will study the technologies underpinning the rapid expansion of this new computing paradigm, the new problem-solving capabilities enabled by the cloud, and provide the student with hands-on experience in utilizing cloud services for scientific research. It will focus on the virtualization of computational resources, cloud storage models, distributed computing in the cloud, and important applications areas such as big data analytics.
Prerequisites	COS 331 or equivalent with a minimum grade of C-.
Credit Hours	3
Place and Time	TBD
Course Delivery Mode	Blended Online
Time Options	Synchronous
Digital Services	Learning Management System: ***Brightspace***. The course will use the Brigthtspace Course Management System as its homepage. All class material, including the syllabus, homework assignments, project descriptions, copies of class slides, and course announcements will be maintained on this System.
Required Software	You will need to download and install several software products for this class. It is recommended that you download Python from Continuum Analytics (https://www.anaconda.com). You will also need to install Jupyter notebook (iot can be downloaded with Python), a Github account, and access to a cloud provider (we are currently planning on using *Jetstream*, located at the Texas Advanced Computing Center, with free access for course participants).
Instructor	Dr. Phillip Dickens, Associate Professor, School of Computing and Information Sciences.
Contact Information	Office: 226 East Annex e-mail: dickens@umcs.maine.edu
Office Hours	TBD
Textbook:	*Cloud Computing for Science and Engineering* by Ian Foster and Dennis Gannon. An on-line version of the book is available for free from https://cloud4scieng.org/chapters.
Papers:	Students will be asked to read and present assigned papers on various aspects of cloud computing. Paper presentations will be counted as part of in-class work.
Course Goals:	Upon successful completion of this course, students will understand the fundamentals of cloud computing and the technologies that make this new computing paradigm possible. They will gain an understanding of elements of the cloud eco-system such as virtualization, cloud storage models, parallel and distributed computing, containers, cloud services, scalability, and the tools for successfully handling big data applications. The students will also gain practical experience in the use of cloud technologies for scientific research.

Student Learning Outcomes:

By the end of this course students will be able to:

- Identify and define the fundamental elements of cloud computing such as virtualization, containers, virtual machines, cloud storage models and parallel/distributed computation.
- Utilize Docker containers in a cloud-based application.
- Write scalable MPI applications for execution in the cloud.
- Write scalable multi-threaded applications for execution in the cloud.
- Implement a multi-container web application with inter-container communication.
- Utilize Docker Swarm in a multi-container application.
- Implement a big-data application using the map/reduce computational paradigm.

Grading and Course Expectations

Expectations

This is a 500-level computer science course designed for graduate students. As such, regular class *attendance* and *participation* is *expected* and will be an important component of your final grade in the course. You are expected to be self-motivated, to perform in-depth exploration of important topic areas, and to present the results of your investigations to the class. You are encouraged to bring a laptop to class for in-class work, but not for surfing the Web, sharing funny videos, or working on assignments from other classes.

Graduate/Undergraduate Expectations:

This course is cross listed with COS 442 for undergraduates. There are four primary differences in expectations:

1) Graduate students will be required to do additional homework problems.
2) Graduate students will have different exams than undergraduates.
3) Graduate students will be required to make in-class presentations.
4) Graduate students are expected to be active participants in the classroom and the in-class participation grade will reflect this expectation.

Grading:

In-class participation:	15%
In-class exercises:	20%
Homework:	30%
Presentations:	10%
Midterm:	15%
Final:	10%

Assignments:

Unless otherwise announced, all assignments, including written homework, programming assignments, project source code and supporting documentation, are to be submitted to Brightspace ONLY. The time by which an assignment must be uploaded to Brightspace will vary but will be specified.

Course Schedule:

Please see below.

Course Policies:

Regular class attendance and participation is expected and will be graded. In-class exercises are designed to be completed during class time on the day they are assigned and cannot be made up if missed. The class policy is that all work should be completed within the allotted time and no late work will be accepted without prior consent of the instructor.

Campus Policies:

Academic Honesty Statement:

Academic honesty is very important. It is dishonest to cheat on exams, to copy term papers, to submit papers written by another person, to fake experimental results, or to copy or reword parts of books or articles into your own papers without appropriately citing the source. Students committing or aiding in any of these violations may be given failing grades for an assignment or for an entire course, at the discretion of the instructor. In addition to any academic action taken by an instructor, these violations are also subject to action under the University of Maine Student Conduct Code. The maximum possible sanction under the student conduct code is dismissal from the University.

Please see the University of Maine System's Academic Integrity Policy listed in the Board Policy Manual as Policy 314: https://www.maine.edu/board-of-trustees/policy-manual/section-314/

Students Accessibility Services Statement:

If you have a disability for which you may be requesting an accommodation, please contact Student Accessibility Services, 121 East Annex, 581.2319, as early as possible in the term. Students who have already been approved for accommodations by SAS and have a current accommodation letter should meet with me (Phillip Dickens, dickens@umcs.maine.edu) privately as soon as possible.

Course Schedule Disclaimer (Disruption Clause):

In the event of an extended disruption of normal classroom activities (due to COVID-19 or other long-term disruptions), the format for this course may be modified to enable its completion within its programmed time frame. In that event, you will be provided an addendum to the syllabus that will supersede this version.

Observance of Religious Holidays/Events:

The University of Maine recognizes that when students are observing significant religious holidays, some may be unable to attend classes or labs, study, take tests, or work on other assignments. If they provide adequate notice (at least one week and longer if at all possible), these students are allowed to make up course requirements as long as this effort does not create an unreasonable burden upon the instructor, department or University. At the discretion of the instructor, such coursework could be due before or after the examination or assignment. No adverse or prejudicial effects shall result to a student's grade for the examination, study, or course requirement on the day of religious observance. The student shall not be marked absent from the class due to observing a significant religious holiday. In the case of an internship or clinical, students should refer to the applicable policy in place by the employer or site.

Sexual Violence Policy

Sexual Discrimination Reporting

The University of Maine is committed to making campus a safe place for students. Because of this commitment, if you tell a teacher about an experience of **sexual assault, sexual harassment, stalking, relationship abuse (dating violence and domestic violence), sexual misconduct or any form of gender discrimination** involving members

of the campus, **your teacher is required to report** this information to Title IX Student Services or the Office of Equal Opportunity.
If you want to talk in confidence to someone about an experience of sexual discrimination, please contact these resources:
For *confidential resources on campus*: **Counseling Center: 207-581-1392** or **Cutler Health Center: at 207-581-4000.**
For *confidential resources off campus*: **Rape Response Services:** 1-800-871-7741 or **Partners for Peace**: 1-800-863-9909.
Other resources: The resources listed below can offer support but may have to report the incident to others who can help:
For *support services on campus*:

Title IX Student Services: 207-581-1406, Office of Community Standards: 207-581-1409, University of Maine Police: 207-581-4040 or 911. Or see the Title IX Student Services website for a complete list of services.

Tentative Course Schedule

Week	Main Topics Covered
1	What is Cloud Computing? Cloud Providers, Cloud Infrastructure.
2	Technologies enabling Cloud computing, Parallel/Distributed programming models, cluster computing, Grid computing, Web services.
3	Cloud Storage Models.
4	Umaine/Jetstream Cloud.
5	Virtualization, Virtual Machines, Containers.
5	Computing in the Cloud: Message Passing Interface.
6	Computing in the Cloud: Pthreads.
7	Docker Compose.
8	Microservices Architecture, DockerCoins Example.
9	Docker Swarm.
10	Student Presentations: TBD
11	Student Presentations: TBD
12	Adding new service to microservices application
13	Python multithreading, Container Communication
14	Scaling Applications in the Cloud
15	Big Data Applications using Map/Reduce

There will be a homework assignment due every week and a final exam during finals week. The midterm will be scheduled during week 8.

THE UNIVERSITY OF MAINE

NEW COURSE PROPOSAL/MODIFICATION/ELIMINATION FORM FOR GRADUATE COURSES

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Please return the completed e-form with appropriate signatures and documentation to the Graduate School by saving the form to your desktop and sending as an attachment to graduate@maine.edu. Please include in the subject line 'Course Proposal' and the course designator and number.

GRADUATE PROGRAM/UNIT: Computer Science

COURSE DESIGNATOR: COS COURSE NUMBER: 573 EFFECTIVE SEMESTER: Fall 2022

COURSE TITLE: Computer Vision

REQUESTED ACTION

NEW COURSE (check all that apply, complete Section 1, and submit a complete syllabus):

- [x] New Course (in person)
- [ ] New Course with Electronic Learning
- [ ] Experimental

MODIFICATION (Check all that apply and complete Section 2):

- [ ] Designator Change
- [ ] Number Change
- [ ] Title Change
- [ ] Description Change
- [ ] Prerequisite Change
- [ ] Credit Change
- [X] Cross Listing (must be at least 400-level)[1] COS 473
- [ ] Other (specify)

ELIMINATION:

- [ ] Course Elimination

ENDORSEMENTS

Please sign using electronic signatures. If you do not already have a digital signature, please click within the correct box below and follow the on-screen instructions.

Leader, Initiating Department/Unit(s)

Perry Alexanian

College(s) Curriculum Committee Chair(s) [if applicable]

Thane Fremouw Digitally signed by Thane Fremouw Date: 2021.05.13 09:55:28 -04'00'

College Dean(s)

Timothy M. Gates May 12, 2021

Graduate School [sign and date]

1. Courses cross-listed below 400-level require the permission of the Graduate School.

SECTION 1 (FOR NEW COURSE PROPOSALS)

Proposed Catalog Description (include designator, number, title, prerequisites, credit hours):

COS 573 Computer Vision, 3 Credit Hours Prerequisite: COS 226 with a grade of C- or better or permission of the instructor. Computer Vision is an accessible sub-field of computer science that is rising in importance and accelerating on the strengths of machine learning methods that have become the 21st century model for artificial intelligence. We will explore the uses of tools and techniques to understand our world through computing using images as our data. The first half of the course will introduce machine learning and convolutional neural networks for object recognition and classification, photogrammetry and reconstruction, and multimodal and hyperspectral imaging. As the course progresses, we will delve into the topics of image acquisition, mathematical analysis, the Fourier transform and frequency space, statistical pattern recognition, and other foundations of the field. This course is a fast-paced, hands-on, practical exploration of computer vision. Students from the class are organized into teams to work on a computer vision project. COS 473 and COS 573 can not both be taken for degree credit.

Components (type of course/used by Student Records for MaineStreet) – *Multiple selections are possible for courses with multiple non-graded components:*

- ☐ Applied Music
- ☐ Clinical
- ☐ Field Experience/Internship
- ☐ Research
- ☐ Studio
- ☐ Laboratory
- ☒ Lecture/Seminar
- ☐ Recitation
- ☐ Independent Study
- ☐ Thesis

Text(s) planned for use:

There is no required textbook for this class. All of the slides used in class will be distributed here through BrightSpace or its equivalent so that you can use them for reference. Other electronic readings, especially original papers in the field, will also be assigned. Video lectures will also be assigned as mandatory material. Required reading or viewing of video should be completed BEFORE the first date listed below for maximum benefit.

Course instructor (include name, position, teaching load):

Terry Yoo, Associate Professor – tenure-eligible , SCIS, Teaching load: 3 courses per semester.

Reason for new course:

The current course offerings in UMaine Computer Science need additional courses to better reflect the expanding technology in computing. A version of this course was offered as an Advanced Topics in Computer Science course; it was well received, and we are applying to have it offered as a regular course.

Does the course addition require additional department or institutional facilities, support and/or resources, e.g. new lab facilities, computer support and services, staffing (including graduate teaching assistants), or library subscriptions and resources?

- ◉ No. The department will not request additional resources for this course.
- ○ Yes. Please list additional resources required and note how they will be funded or supported.

What other departments/programs are affected (e.g. course overlap, prerequisites)? Have affected departments/programs been consulted? Any concerns expressed? Please explain.

n/a

How often will this course be offered? Will offering this course result in overload salary payments, either through the college or CEO, either to the instructor of this course or to anyone else as a result of rearranging teaching assignments?

Fall, alternating years. It should not result in an overload of salary payments.

COS 573: Computer Vision

Course Information

Computer Vision is an accessible sub-field of computer science that is rising in importance and accelerating on the strengths of machine learning methods that have become the 21st century model for artificial intelligence. In this course, we will explore the uses of tools and techniques to understand our world through computing using images as our data. The first half of the course will introduce machine learning and convolutional neural networks for object recognition and classification, photogrammetry and reconstruction, and multimodal and hyperspectral imaging. As the course progresses, we will delve into the topics of image acquisition, mathematical analysis, the Fourier transform and frequency space, statistical pattern recognition, and other foundations of the field. This course is a fast-paced, hands-on, practical exploration of computer vision. Students from the class are organized into teams to work on a computer vision project.

Three (3) Credit Hours.

Boardman 310, Tu-Th, 9:30-10:45 AM (example)

Prerequisites: COS 226 Introduction to Data Structures and Algorithms with a grade of C- or better or permission of the Instructor

GenEd requirements satisfied: n/a

Course Delivery Method

Mode of Instruction: In-person

Time Options: Synchronous

Digital Services, Hardware, Software:

Learning Management System: Brightspace
Web or Video Conferencing Service (if necessary): Zoom

Faculty Information

Terry Yoo, Associate Professor (cos.computer.vision@maine.edu)
Office: Boardman 325 (x1-4883)
Office Hours: 2-4 PM, Wednesdays

Instructional Materials and Methods

There is no required textbook for this class. All of the slides used in class will be distributed here through BrightSpace or its equivalent so that you can use them for reference.

Other electronic readings, especially original papers in the field, will also be assigned. Video lectures will also be assigned as mandatory material.

Required reading or viewing of video should be completed BEFORE the first date listed below for maximum benefit.

Optional supplemental text: *Machine Learning: an algorithmic approach* (Chapman & Hall/CRC Machine Learning & Pattern Recognition) 2nd Edition, Stephen Marsland, 2015, ISBN-13: 978-1466583283, ISBN-10: 1466583282

Course Goals:

The goals of the course are to impart to students a comprehensive understanding of the factors underlying research that incorporates Computer Vision including image acquisition, mathematical analysis, the Fourier transform and frequency space, statistical pattern recognition, and machine learning. Through the course project, students will learn how to decompose a complex computer vision problem and implement a solution.

Instructional Objectives:

By the end of this course, students should be able to:

1. Read and discuss current and seminal technical papers about computer vision techniques, systems, and applications.
2. Be familiar with a diverse set of computer vision approaches and techniques, together with situations when they are appropriate.
3. Work with a team to solve a computer vision problem using techniques and methods presented throughout this course.
4. Describe the design, implementation, and evaluation of prototype computer vision solution in an interactive presentation and technical paper suitable for publication.

Student Learning Outcomes

By completing the material in this course, students should acquire or develop the following knowledge, skills, and dispositions:

- SO1: Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

- SO2: Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of computer science.
- SO3: Communicate effectively in a variety of professional contexts.
- SO6: Apply computer science theory and software development fundamentals to produce computing-based solutions.

Grading and Course Expectations

Grades will be assigned on the basis of attendance, homework, quizzes, individual contribution to the project presentation, the project artifacts (proposal, input data review, results), project presentation, and final project write-up. The components of the grade are normalized to 100%.

- Individual Grades (60% total)
  - Attendance (5%)
  - Homework (25%)
  - Quizzes (25%)
  - Final Project Delivery and Demonstration (5%)
- Project Grades (40% total)
  - Project Artifacts (15%)
    - Project proposal (5%)
    - Analysis of input data and methods (5%)
    - Preliminary results review (5%)
  - Prototype, Design Delivery, Demonstration, and Presentation (10%)
  - Final Project Write-up (15%)

Those taking the course for undergraduate credit may complete the graduate assignments for extra credit. Letter grades will be assigned according to the following distribution (grades with + or – designator will be given at instructor discretion):

A 90-100, B 80-89, C 70-79, D 60-69, F 0-59.

Brightspace and Discord: This term we will be using Brightspace for class discussion. We may supplement our discussion tools with Discord.

Peer Evaluations: A peer survey will be solicited from all class members, with confidential assessments of how each team performed. Your Team Grade may be adjusted to reflect poor participation or performance up to 25%.

Tentative Course Schedule:

Date	Topic
Week 1	Overview
Week 2	Machine Learning – back-propagating networks (ML Exercise/assignment)
Week 3	Deep learning networks, Convolutional Neural Networks
Week 4	Photogrammetry (Quiz 1)
Week 5	Shape from X (Photogrammetry Exercise/assignment)
Week 6	Hyperspectral imaging, classification (Project selection)
Week 7	Images acquisition, intensity, photons, noise, LIDAR, structured light, resolution, laser, ultrasound
Week 8	Sampling and Noise, Frequency space, the Fourier Transform, Shannon-Nyquist, Shannon-Hartley, Regularization, the Matchless Gaussian (Fourier Transform Exercise/assignment)
Week 9	Vision – human visual system, pigeon vision, cameras, distortion, optics
Week 10	Feature points, Local Invariant Descriptors
Week 11	Statistical pattern recognition (Quiz 2)
Week 12	Scale (Scale Exercise /assignment)
Week 13	Segmentation, Registration
Week 14	Hot Topics and Research Challenges
Week 15	Project Presentations

Course Policies

Policy on Late Assignments: Assignments that are late without prior approval will have 20% deducted for the first week they are late. No assignment will be accepted more than one week late.

Since circumstances may intervene, preventing you from getting your work done some week, you are permitted one unscheduled late individual assignment, up to one week late, no questions asked. However, you may only use this unscheduled late individual assignment if you have an unblemished record of delivering assignments on time. That is, the first time you submit an individual assignment up to one week late, it will not cost you. Use it wisely.

These policies do not apply to the final project report. That deliverable is due on the date of the final exam. Following the same policy that exams will not be rescheduled, no late final reports will be accepted.

Regrading: Homework assignments and project artifacts (other than the final project report) may be corrected and re-submitted within one week of the return of their graded copy. Updated, corrected

submissions must be accompanied by the original marked copy of the assignment, Code Inspection Report, Administrator Manual, or User Manual.

No late assignments or project artifacts will be accepted for regrading.

Attendance: Full, regular attendance is expected of every student. If you must be absent, please send e-mail in advance explaining your absence. Guest speakers are planned on topics including career development and on seeking post-graduate employment. Your attendance is mandatory at guest lectures.

Attendance is an official component of your grade. As such, it will be monitored and recorded both explicitly and implicitly throughout the semester.

Participation: This is a group project course; your active participation is required throughout all stages of the project development. Vocal as well as written reports will be required periodically throughout the semester, and all members of each group will be expected to take turns presenting ideas and conclusions.

Rescheduling work, exams: Quizzes will not be rescheduled, and you will not be able to retake exams without prior approval and authorization. For additional information, see the section below on Campus Policies.

Classroom deportment: This is a graduate computer science class. Group discussion and exchange of ideas is expected, and interactions can become heated and passionate. Civil behavior and professional courtesy are expected at all times. Repeated outbursts or class disruption can lead to an adjustment of an individual's grade or other disciplinary action. Inclusive, non-racist, non-sexist language is expected in class. For additional information, see the section below on Campus Policies.

Campus Policies

Academic Honesty Statement: Academic honesty is very important. It is dishonest to cheat on exams, to copy term papers, to submit papers written by another person, to fake experimental results, or to copy or reword parts of books or articles into your own papers without appropriately citing the source. Students committing or aiding in any of these violations may be given failing grades for an assignment or for an entire course, at the discretion of the instructor. In addition to any academic action taken by an instructor, these violations are also subject to action under the University of Maine Student Conduct Code. The maximum possible sanction under the student conduct code is dismissal from the University.

Please see the University of Maine System's Academic Integrity Policy listed in the Board Policy Manual as Policy 314: https://www.maine.edu/board-of-trustees/policy-manual/section-314/

Students Accessibility Services Statement **[This should be customized to include the instructor's name]**: If you have a disability for which you may be requesting an accommodation, please contact Student Accessibility Services, 121 East Annex, 581.2319, as early as possible in the term. Students who have already been approved for accommodations by SAS and have a current accommodation letter should meet with me (the instructor of the course) privately as soon as possible.

Course Schedule Disclaimer (Disruption Clause): In the event of an extended disruption of normal classroom activities (due to COVID-19 or other long-term disruptions), the format for this course may be modified to enable its completion within its programmed time frame. In that event, you will be provided an addendum to the syllabus that will supersede this version.

Observance of Religious Holidays/Events: The University of Maine recognizes that when students are observing significant religious holidays, some may be unable to attend classes or labs, study, take tests, or work on other assignments. If they provide adequate notice (at least one week and longer if at all possible), these students are allowed to make up course requirements as long as this effort does not create an unreasonable burden upon the instructor, department or University. At the discretion of the instructor, such coursework could be due before or after the examination or assignment. No adverse or prejudicial effects shall result to a student's grade for the examination, study, or course requirement on the day of religious observance. The student shall not be marked absent from the class due to observing a significant religious holiday. In the case of an internship or clinical, students should refer to the applicable policy in place by the employer or site.

Sexual Violence Policy [There are two versions of this statement. You must include either the long version or the short version in your syllabus.]

Sexual Discrimination Reporting

The University of Maine is committed to making campus a safe place for students. Because of this commitment, if you tell any of your teachers about sexual discrimination involving members of the campus, **your teacher is required to report** this information to Title IX Student Services or the Office of Equal Opportunity.

Behaviors that can be "sexual discrimination" include sexual assault, sexual harassment, stalking, relationship abuse (dating violence and domestic violence), sexual misconduct, and gender discrimination. Therefore, all of these behaviors must be reported.

Why do teachers have to report sexual discrimination?

The university can better support students in trouble if we know about what is happening. Reporting

also helps us to identify patterns that might arise – for example, if more than one victim reports having been assaulted or harassed by the same individual.

What will happen to a student if a teacher reports?

An employee from Title IX Student Services or the Office of Equal Opportunity will reach out to you and offer support, resources, and information. You will be invited to meet with the employee to discuss the situation and the various options available to you.

If you have requested confidentiality, the University will weigh your request that no action be taken against the institution's obligation to provide a safe, nondiscriminatory environment for all students. If the University determines that it can maintain confidentiality, you must understand that the institution's ability to meaningfully investigate the incident and pursue disciplinary action, if warranted, may be limited. There are times when the University may not be able to honor a request for confidentiality because doing so would pose a risk to its ability to provide a safe, nondiscriminatory environment for everyone. If the University determines that it cannot maintain confidentiality, the University will advise you, prior to starting an investigation and, to the extent possible, will share information only with those responsible for handling the institution's response

The University is committed to the well-being of all students and will take steps to protect all involved from retaliation or harm.

If you want to talk in confidence to someone about an experience of sexual discrimination, please contact these resources:

For *confidential resources on campus*: **Counseling Center: 207-581-1392** or **Cutler Health Center: at 207-581-4000**.

For *confidential resources off campus*: **Rape Response Services:** 1-800-871-7741 or **Partners for Peace**: 1-800-863-9909.

Other resources: The resources listed below can offer support but may have to report the incident to others who can help:

For *support services on campus*: **Title IX Student Services: 207-581-1406, Office of Community Standards: 207-581-1409, University of Maine Police: 207-581-4040 or 911**. Or see the Title IX Student Services website for a complete list of services.

Course Proposal

Row 6

Created	09/16/21 3:12 AM
Received Date	09/24/21
Syllabus Check	
GS Status	Ready for Review
Status	Submitted to Grad School
Course Designator & Number	MBA 637
Academic Unit	Business
Effective Semester	SP22
Course Title	Global Supply Chain Networks
Action	Create a New Course
New Course Type	New Course
Course Modification Type	
Proposed Catalog Description	An introduction to managing the flow of material, products, services, information, and cash via the processes, technologies, and facilities that link primary suppliers through to ultimate customers. Attention is given to the functions of forecasting, production planning, supply management, production, transportation, inventory, warehousing, packaging, materials handling and customer service.
New Course Title	
New Course Designator & Number	
Prerequisites	Graduate Standing in a Degree or Certificate Program or Permission from the Graduate Business Office
Credit Hours	3
Components	Seminar

Other Modification	
Text(s) Planned for Use	Various Texts, Journals and Case Studies (varies by instructor)
Course Instructor	This course is taught by various instructors from UM and USM, 3-6 times yearly.
Reason for New Course	Alignment to MBA Core. ****NOTE**** This course was approved by the grad board in SP21 as part of a substantive change process.
Proposed Resources	No. The academic unit will not request additional resources for this course
Additional Resources Required	
Units Affected	SPIA, MSIS, MaineLaw, Food Science, PSM, Cert in Engineer Mgmt. All consulted, No concerns.
Course Frequency	3-6 times yearly.
Current Catalog Description	
Reason for Course Modification	
Reason for Course Elimination	
Repeated for Credit	No
Credits Allowed	
Completions Allowed	
Enroll Multiple Times in Term	No
Distance Technology	Online (Asynchronous)
Prerequisite Modification	
Preparer	jamie.ballinger@maine.edu

Leader	jamie.ballinger@maine.edu
Leader approval	Approved
Leader approval date	09/20/21
Curriculum Committee Chair 1	
Curriculum Committee Chair 1 approval	
CC Chair 1 Approval Date	
College Dean 1	norman.oreilly@maine.edu
College Dean 1 approval	Approved
Dean 1 Approval Date	09/21/21
DLL Approval	patricia.libby@maine.edu
DLL Approval approval	Approved
DLL Approval Date	09/24/21
Cross Listed	No
Leader 2	
Leader 2 approval	
Leader 2 approval date	
Curriculum Committee Chair 2	
Curriculum Committee Chair 2 approval	
CC Chair 2 Approval Date	

College Dean 2

College Dean 2
approval

Dean 2
Approval Date

Comments

jennifer.a.chiarell@maine.edu | September 21, 2021 9:49 AM

Please reroute to Patricia Libby for DLL approval

patricia.perry1@maine.edu | September 20, 2021 10:27 AM

@jamie.ballinger@maine.edu
I am sending this back to obtain the second signature from the Business Department.
Please enter Dean O'Reilly's email and resubmit!

THE UNIVERSITY OF MAINE
Graduate School of Business

SAMPLE SYLLABUS
MBA 637: Global Supply Chain Networks

Instructor: TBD

Office Location:

Office Hrs:

Course Description: This course examines supply chain concepts and current practice in the context of just-in-time production, total quality management, and continuous productivity improvement. Using practical applications, the focus is on the proactive management of movement and coordination of goods and services, and information, from raw material to end user through the value chain on a global scale. Other topics include understanding the nature of demand for goods and services within business markets and the process of building relationships with suppliers. System-oriented managerial tools, models, and techniques are considered for their value-adding potential.

Primary Textbook: TBD

Learning Goals:

1. **Problem Solving:** Students will be able to recognize, define, analyze, and offer solutions to global supply chain problems under resource constraints
2. **Knowledge:** Students will demonstrate competency in general and advanced concepts and processes in supply chain networks
3. **Communication:** Students will demonstrate effective oral and written communication through presentations and written assignments.
4. **Global:** Students will be able to conduct business in a foreign environment by understanding and appreciating differences in business practices and cultures and conducting themselves responsibly
5. **Teamwork:** Students will learn how to develop successful teams and work with and contribute to teams in this course.

Course Outcomes

1. Describe and explain fundamentals of and and best practices in supply chain management
2. Identify and analyze challenges and opportunities for managing supply chains. Apply analytical models to global supply chain design and management.
3. Analyze the supply chain strategies that have been adopted by leading companies
4. Provide a systems approach to understand supply chain management
5. Propose business solutions in written and verbal form for problems confronting supply chain managers in specific business situations
6. Identify current issues in global supply chain management such as sustainability and risk management.

Sample Schedule

Week One:

- Overview of the Course

- Introduction to Supply Chain Management

Week Two:

- Models for Inventory Management
- Risk Pooling/ Hedging

Week Three:

- Forecasting and Network Planning
- Supply Contracts

Week Four:

- Supply Chain Integration
- Global Transportation and Distribution Strategies

Week Five:

- Value of Information
- Procurement & Outsourcing/Offshoring Strategies

Week Six:

- Coordinated Product & SC Design
- Supply Chain Relationships/ Coordination: bullwhip effect

Week Seven:

- Offshoring
- Global Supply Chain Networks: buy-sell, turnkey, transfer price and tax

Week Eight:

- Presentations

UMAINE POLICIES:

- Student Conduct Code
- Student Handbook
- Student Accessibility Services
- Inclement Weather Policy

Academic Honesty Statement: It is dishonest to cheat on exams, to copy term papers, to submit papers written by another person, to fake experimental results, or to copy or reword parts of books or articles into your own papers without appropriately citing the source. Students committing or aiding in any of these violations may be given failing grades for an assignment or for an entire course, at the discretion of the instructor. In addition to any academic action taken by an instructor, these violations are also subject to action under the University of Maine Student Conduct Code. The maximum possible sanction under the student conduct code is dismissal from the University.

Students with disabilities statement: If you have a disability for which you may be requesting an accommodation, please contact Student Accessibility Services, 121 East Annex, 581.2319, as early as possible in the term. Students who have already been approved for accommodations by SAS and have a current accommodation letter should meet with me (the instructor of the course) privately as soon as possible.

Course Schedule Disclaimer: In the event of an extended disruption of normal classroom activities, the format for this course may be modified to enable its completion within its programmed time frame. In that event, you will be provided an addendum to the syllabus that will supersede this version.

Observance of Religious Holidays/Events: The University of Maine recognizes that when students are observing significant religious holidays, some may be unable to attend classes or labs, study, take tests, or work on other assignments. If they provide adequate notice (at least one week and longer if at all possible), these students are allowed to make up course requirements as long as this effort does not create an unreasonable burden upon the instructor, department or University. At the discretion of the instructor, such coursework could be due before or after the examination or assignment. No adverse or prejudicial effects shall result to a student's grade for the examination, study, or course requirement on the day of religious observance. The student shall not be marked absent from the class due to observing a significant religious holiday. In the case of an internship or clinical, students should refer to the applicable policy in place by the employer or site.

Sexual Discrimination Reporting: The University of Maine is committed to making campus a safe place for students. Because of this commitment, if you tell a teacher about an experience of sexual assault, sexual harassment, stalking, relationship abuse (dating violence and domestic violence), sexual misconduct or any form of gender discrimination involving members of the campus, your teacher is required to report this information to the campus Office of Sexual Assault & Violence Prevention or the Office of Equal Opportunity. If you want to talk in confidence to someone about an experience of sexual discrimination, please contact these resources: For confidential resources on campus: Counseling Center: 207-581-1392 or Cutler Health Center: at 207-581-4000. For confidential resources off campus: Rape Response Services: 1-800-871-7741 or Spruce Run: 1-800-863-9909. Other resources: The resources listed below can offer support but may have to report the incident to others who can help: For support services on campus: Office of Sexual Assault & Violence Prevention: 207-581-1406, Office of Community Standards: 207-581-1409, University of Maine Police: 207-581-4040 or 911. Or see the OSAVP website for a complete list of services at http://www.umaine.edu/osavp/

Course Proposal

Row 3

Created	09/16/21 2:47 AM
Received Date	09/21/21
Syllabus Check	
GS Status	Pre-Review Complete
Status	Submitted to Grad School
Course Designator & Number	BUA 601
Academic Unit	Business
Effective Semester	SP22
Course Title	Data Analysis for Business
Action	Modify an Existing Course
New Course Type	
Course Modification Type	Description Change Prerequisite Change Title Change
Proposed Catalog Description	To inform organizational decisions, students will learn to identify business problems, differentiate types of big data, propose a research question, and think critically about which statistical processes and applications will yield insights from the data.
New Course Title	Strategic Data Analysis
New Course Designator & Number	
Prerequisites	Graduate Standing in a Degree or Certificate Program or Permission from the Graduate Business Office
Credit Hours	
Components	
Other	

Modification	
Text(s) Planned for Use	
Course Instructor	Varies
Reason for New Course	
Proposed Resources	No. The academic unit will not request additional resources for this course
Additional Resources Required	
Units Affected	
Course Frequency	3-6 times yearly
Current Catalog Description	BUA 601 - Data Analysis for Business This course familiarizes students with how to utilize data to inform organizational decision making. In doing so students will learn to identify business problems, then learn how to differentiate types of big data, then propose a research question, think critically about which statistical processes and applications will yield insights from the data, such that students are able to inform organizational decisions. Students will be challenged to turn data into information, describe these data effectively, and generate a professional business communication using tools found in the business workplace (Microsoft Office products normally). Prerequisites & Notes A grade of B- or better in either an introductory statistics course or in a single variable calculus course (STS 215 or STS 232). Must be in a graduate degree or certificate program. Exceptions to any prerequisites require permission of the MBA Program Director. Credits: 3
Reason for Course Modification	Alignment to revised MBA Core approved 2021 by GSB faculty
Reason for Course Elimination	
Repeated for Credit	
Credits Allowed	
Completions Allowed	
Enroll Multiple Times in Term	

Distance Technology	
Prerequisite Modification	
Preparer	jamie.ballinger@maine.edu
Leader	jamie.ballinger@maine.edu
Leader approval	Approved
Leader approval date	09/20/21
Curriculum Committee Chair 1	
Curriculum Committee Chair 1 approval	
CC Chair 1 Approval Date	
College Dean 1	norman.oreilly@maine.edu
College Dean 1 approval	Approved
Dean 1 Approval Date	09/21/21
DLL Approval	
DLL Approval approval	
DLL Approval Date	
Cross Listed	~~Yes~~ No
Leader 2	
Leader 2 approval	
Leader 2 approval date	
Curriculum Committee Chair 2	

Curriculum Committee Chair 2 approval	
CC Chair 2 Approval Date	
College Dean 2	norman.oreilly@maine.edu
College Dean 2 approval	Approved
Dean 2 Approval Date	09/21/21

THE UNIVERSITY OF MAINE

NEW COURSE PROPOSAL/MODIFICATION/ELIMINATION FORM FOR GRADUATE COURSES

Graduate course proposals, modifications, or eliminations must be submitted to the Graduate School no later than the 3rd of each month. Please refer to the Graduate School website for the Curriculum Committee meetings schedule. Electronic signatures and submission is required.

Please return the completed e-form with appropriate signatures and documentation to the Graduate School by saving the form to your desktop and sending as an attachment to graduate@maine.edu. Please include in the subject line 'Course Proposal' and the course designator and number.

GRADUATE PROGRAM/UNIT Electrical and Computer Engineering

COURSE DESIGNATOR ECE COURSE NUMBER 515 EFFECTIVE SEMESTER Fall 2021

COURSE TITLE Random Variables and Stochastic Processes

REQUESTED ACTION

NEW COURSE (check all that apply, complete Section 1, and submit a complete syllabus):

- ☐ New Course
- ☐ New Course with Electronic Learning
- ☐ Experimental

MODIFICATION (Check all that apply and complete Section 2):

- ☐ Designator Change
- ☐ Number Change
- ☐ Title Change
- ☐ Description Change
- ■ Prerequisite Change
- ☐ Credit Change
- ☐ Cross Listing (must be at least 400-level)[1]
- ☐ Other (specify) _____

ELIMINATION:

- ☐ Course Elimination

ENDORSEMENTS

Please sign using electronic signatures. If you do not already have a digital signature, please click within the correct box below and follow the on-screen instructions.

Leader, Initiating Department/Unit(s)

David J. Neiwandt

College(s) Curriculum Committee Chair(s) [if applicable]

Mohamad Musavi

Digitally signed by Mohamad Musavi
DN: cn=Mohamad Musavi, o=University of Maine, ou=College of Engineering, email=musavi@maine.edu, c=US
Date: 2021.09.14 10:59:42 -04'00'

College Dean(s) 9/14/21

Graduate School [sign and date]

1. Courses cross-listed below 400-level require the permission of the Graduate School.

SECTION 2 (FOR COURSE MODIFICATIONS)

Current catalog description (include designator, number, title, prerequisites, credit hours):

ECE 515 - Random Variables and Stochastic Processes
Engineering applications of probability theory. Analysis of random variables, random processes and stochastic models. Introduction to the analysis and optimization of linear systems with random inputs. Lec 3. (Fall.)

Prerequisites & Notes
graduate standing, MAT 332 or equivalent.

Credits: 3

Proposed catalog description (include designator, number, title, prerequisites, credit hours):

ECE 515 - Random Variables and Stochastic Processes
Engineering applications of probability theory. Analysis of random variables, random processes and stochastic models. Introduction to the analysis and optimization of linear systems with random inputs. Lec 3. (Fall.)

Prerequisites & Notes
ECE 316 or instructor's permission.

Credits: 3

Reason for course modification:

In order to allow students from other programs such as Data Science and Engineering to join this course with enough preparation, we propose this change to have a more clear preparation requirements. ECE 316 is an approved required course for ECE students, but not for other majors.

SECTION 3 FOR COURSE ELIMINATIONS

Reason for Elimination

Please return the completed e-form with appropriate signatures and documentation to the Graduate School by saving the form to your desktop and sending as an attachment to graduate@maine.edu. Please include in the subject line 'Course Proposal' and the course designator and number.

THE UNIVERSITY OF MAINE

NEW COURSE PROPOSAL/MODIFICATION/ELIMINATION FORM FOR GRADUATE COURSES

Graduate course proposals, modifications, or eliminations must be submitted to the Graduate School no later than the 3rd of each month. Please refer to the Graduate School website for the Curriculum Committee meetings schedule. Electronic signatures and submission is required.

Please return the completed e-form with appropriate signatures and documentation to the Graduate School by saving the form to your desktop and sending as an attachment to graduate@maine.edu. Please include in the subject line 'Course Proposal' and the course designator and number.

GRADUATE PROGRAM/UNIT Electrical and Computer Engineering

COURSE DESIGNATOR ECE COURSE NUMBER 585 EFFECTIVE SEMESTER Spring 2022

COURSE TITLE Fundamentals of Wireless Communication

REQUESTED ACTION

NEW COURSE (check all that apply, complete Section 1, and submit a complete syllabus):

- ☐ New Course
- ☐ New Course with Electronic Learning
- ☐ Experimental

MODIFICATION (Check all that apply and complete Section 2):

- ☐ Designator Change
- ☐ Number Change
- ☐ Title Change
- ☐ Description Change
- ☒ Prerequisite Change
- ☐ Credit Change
- ☐ Cross Listing (must be at least 400-level)[1]
- ☐ Other (specify) _____

ELIMINATION:

- ☐ Course Elimination

ENDORSEMENTS

Please sign using electronic signatures. If you do not already have a digital signature, please click within the correct box below and follow the on-screen instructions.

Leader, Initiating Department/Unit(s)

David J. Neiwandt

College(s) Curriculum Committee Chair(s) (If applicable)

Mohamad Musavi

Digitally signed by Mohamad Musavi
DN: cn=Mohamad Musavi, o=University of Maine, ou=College of Engineering, email=musavi@maine.edu, c=US
Date: 2021.06.02 12:45:15 -04'00'

College Dean(s) 9/14/21

Graduate School [sign and date]

1. Courses cross-listed below 400-level require the permission of the Graduate School.

SECTION 2 (FOR COURSE MODIFICATIONS)

Current catalog description (include designator, number, title, prerequisites, credit hours):

ECE 585 - Fundamentals of Wireless Communication
Aims to present the modern wireless communication concepts in a coherent and unified manner and to illustrate the concepts in the broader context of the wireless systems on which they have been applied. Recent wireless standards will be studies in depth and emphasized through a course project.

Prerequisites & Notes
CHB 350 or ECE 383 or ECE 515 or MAT 332 or instructor permission.

Credits: 3

Proposed catalog description (include designator, number, title, prerequisites, credit hours):

ECE 585 - Fundamentals of Wireless Communication
Aims to present the modern wireless communication concepts in a coherent and unified manner and to illustrate the concepts in the broader context of the wireless systems on which they have been applied. Recent wireless standards will be studied in depth and emphasized through a course project.

Prerequisites & Notes
ECE 484 or instructor's permission.

Credits: 3

Reason for course modification:

ECE 383 was eliminated and replaced by ECE 484. Other prereqs were accumulated over years and at some point were appropriate for ECE students, but in order to allow students from other programs such as Data Science and Engineering to join this course with enough preparation, we propose this change to have a more clear preparation requirements.

SECTION 3 FOR COURSE ELIMINATIONS

Reason for Elimination

Please return the completed e-form with appropriate signatures and documentation to the Graduate School by saving the form to your desktop and sending as an attachment to graduate@maine.edu. Please include in the subject line 'Course Proposal' and the course designator and number.

Course Proposal

Row 4

Created	09/16/21 2:51 AM
Received Date	09/21/21
Syllabus Check	
GS Status	Pre-Review Complete
Status	Submitted to Grad School
Course Designator & Number	MBA 609
Academic Unit	Business
Effective Semester	SP22
Course Title	Financial Statement Analysis
Action	Modify an Existing Course
New Course Type	
Course Modification Type	Description Change Prerequisite Change
Proposed Catalog Description	This course builds on foundational accounting coursework by focusing on the understanding and interpretation of corporate financial statements. Topics typically include analysis of the primary statements via horizontal, vertical, and ratio analysis, DuPont analysis, and financial statement forecasting.
New Course Title	
New Course Designator & Number	
Prerequisites	Graduate Standing in a Degree or Certificate Program or Permission from the Graduate Business Office
Credit Hours	
Components	

Other Modification	
Text(s) Planned for Use	
Course Instructor	Varies
Reason for New Course	
Proposed Resources	No. The academic unit will not request additional resources for this course
Additional Resources Required	
Units Affected	
Course Frequency	3-6 times yearly
Current Catalog Description	MBA 609 - Financial Statement Analysis This course is designed to help students understand how to use and analyze financial statements for making valuation and business decisions. The focus is on the use of financial statements rather than the preparation. Prerequisites & Notes BUA 201 and BUA 202, or BUA 400, or equivalent; MBA student or permission from Business School Office of Graduate Programs
Reason for Course Modification	Align to new MBA core
Reason for Course Elimination	
Repeated for Credit	
Credits Allowed	
Completions Allowed	
Enroll Multiple Times in Term	
Distance Technology	
Prerequisite Modification	

Preparer	jamie.ballinger@maine.edu
Leader	jamie.ballinger@maine.edu
Leader approval	Approved
Leader approval date	09/20/21
Curriculum Committee Chair 1	
Curriculum Committee Chair 1 approval	
CC Chair 1 Approval Date	
College Dean 1	norman.oreilly@maine.edu
College Dean 1 approval	Approved
Dean 1 Approval Date	09/21/21
DLL Approval	
DLL Approval approval	
DLL Approval Date	
Cross Listed	No
Leader 2	
Leader 2 approval	
Leader 2 approval date	
Curriculum Committee Chair 2	
Curriculum Committee Chair 2 approval	

CC Chair 2 Approval Date	
College Dean 2	norman.oreilly@maine.edu
College Dean 2 approval	Approved
Dean 2 Approval Date	09/21/21

Course Proposal

Row 5

Created	09/16/21 2:56 AM
Received Date	09/21/21
Syllabus Check	
GS Status	Pre-Review Complete
Status	Submitted to Grad School
Course Designator & Number	MBA 626
Academic Unit	Business
Effective Semester	SP22
Course Title	Management of Contemporary Organizations
Action	Modify an Existing Course
New Course Type	
Course Modification Type	Description Change Prerequisite Change
Proposed Catalog Description	Explores analytical perspectives to understand how individuals organize themselves in accomplishing organizational goals. Topics include organizational structure, culture, teamwork and diversity, the organization and the global environment.
New Course Title	
New Course Designator & Number	
Prerequisites	Graduate Standing in a Degree or Certificate Program or Permission from the Graduate Business Office
Credit Hours	
Components	
Other	

Modification	
Text(s) Planned for Use	
Course Instructor	Varies
Reason for New Course	
Proposed Resources	No. The academic unit will not request additional resources for this course
Additional Resources Required	
Units Affected	
Course Frequency	3-6 times yearly
Current Catalog Description	MBA 626 - Management of Contemporary Organizations Explores analytical perspectives to understand how individuals organize themselves in accomplishing organizational goals. Applies a managerial approach with a focus on real-life contemporary organizations. Topics include organizational structure and culture, teamwork and diversity, the organization and its environment. Prerequisites & Notes BUA 325 or equivalent or Business School Graduate Management Tutorial; MBA student or permission from Business School Office of Graduate Programs. Must be in a graduate degree or certificate program. Credits: 3
Reason for Course Modification	Alignment to MBA core
Reason for Course Elimination	
Repeated for Credit	
Credits Allowed	
Completions Allowed	
Enroll Multiple Times in Term	
Distance Technology	
Prerequisite	

Modification	
Preparer	jamie.ballinger@maine.edu
Leader	jamie.ballinger@maine.edu
Leader approval	Approved
Leader approval date	09/20/21
Curriculum Committee Chair 1	
Curriculum Committee Chair 1 approval	
CC Chair 1 Approval Date	
College Dean 1	norman.oreilly@maine.edu
College Dean 1 approval	Approved
Dean 1 Approval Date	09/21/21
DLL Approval	
DLL Approval approval	
DLL Approval Date	
Cross Listed	No
Leader 2	
Leader 2 approval	
Leader 2 approval date	
Curriculum Committee Chair 2	
Curriculum Committee	

Chair 2 approval	
CC Chair 2 Approval Date	
College Dean 2	norman.oreilly@maine.edu
College Dean 2 approval	Approved
Dean 2 Approval Date	09/21/21

Comments

patricia.perry1@maine.edu | September 20, 2021 10:28 AM

@jamie.ballinger@maine.edu
I am sending this back to obtain the second signature from the Business Department.
Please enter Dean O'Reilly's email and resubmit!

Course Proposal

Row 7

Created	09/16/21 3:17 AM
Received Date	09/21/21
Syllabus Check	
GS Status	Pre-Review Complete
Status	Submitted to Grad School
Course Designator & Number	MBA 649
Academic Unit	Business
Effective Semester	SP22
Course Title	Management Policy
Action	Modify an Existing Course
New Course Type	
Course Modification Type	Description Change Prerequisite Change Title Change
Proposed Catalog Description	This capstone course studies administrative practices at the strategic level of business management. Develops administrative competence in the formulation of business policy at the decision-making level through case study or practicums.
New Course Title	Strategic Decision Making
New Course Designator & Number	
Prerequisites	MBA students only. Completion of all MBA core courses or permission.
Credit Hours	
Components	
Other	

Modification	
Text(s) Planned for Use	
Course Instructor	Varies
Reason for New Course	
Proposed Resources	No. The academic unit will not request additional resources for this course
Additional Resources Required	
Units Affected	
Course Frequency	3 times yearly
Current Catalog Description	MBA 649 - Management Policy Study of administrative practices at the strategic level of business management. Develops administrative competence in the formulation of business policy at the decision-making level through case study. Prerequisites & Notes BUA 605, BUA 651 and one additional 600-level BUA course; MBA students only. Credits: 3
Reason for Course Modification	Alignment to MBA core
Reason for Course Elimination	
Repeated for Credit	
Credits Allowed	
Completions Allowed	
Enroll Multiple Times in Term	
Distance Technology	
Prerequisite Modification	
Preparer	jamie.ballinger@maine.edu

Leader	jamie.ballinger@maine.edu
Leader approval	Approved
Leader approval date	09/20/21
Curriculum Committee Chair 1	
Curriculum Committee Chair 1 approval	
CC Chair 1 Approval Date	
College Dean 1	norman.oreilly@maine.edu
College Dean 1 approval	Approved
Dean 1 Approval Date	09/21/21
DLL Approval	
DLL Approval approval	
DLL Approval Date	
Cross Listed	No
Leader 2	
Leader 2 approval	
Leader 2 approval date	
Curriculum Committee Chair 2	
Curriculum Committee Chair 2 approval	
CC Chair 2 Approval Date	

College Dean 2	norman.oreilly@maine.edu
College Dean 2 approval	Approved
Dean 2 Approval Date	09/21/21

Comments

patricia.perry1@maine.edu | September 20, 2021 10:29 AM

@jamie.ballinger@maine.edu
I am sending this back to obtain the second signature from the Business Department.
Please enter Dean O'Reilly's email and resubmit!

Course Proposal

Row 8

Created	09/16/21 3:21 AM
Received Date	09/21/21
Syllabus Check	
GS Status	Pre-Review Complete
Status	Submitted to Grad School
Course Designator & Number	MBA 651
Academic Unit	Business
Effective Semester	SP22
Course Title	Financial Management
Action	Modify an Existing Course
New Course Type	
Course Modification Type	Description Change Prerequisite Change
Proposed Catalog Description	Provides a foundation in financial management by integrating topics such as measurement of risk, portfolio theory, interest rate determination, valuation, capital budgeting and cost of capital.
New Course Title	
New Course Designator & Number	
Prerequisites	Graduate Standing in a Degree or Certificate Program or Permission from the Graduate Business Office
Credit Hours	
Components	
Other Modification	

Text(s) Planned for Use	
Course Instructor	Varies
Reason for New Course	
Proposed Resources	No. The academic unit will not request additional resources for this course
Additional Resources Required	
Units Affected	
Course Frequency	3-6 times yearly
Current Catalog Description	MBA 651 - Financial Management Provides a foundation in financial management by integrating topics such as measurement of risk, portfolio theory, interest rate determination, valuation, capital budgeting and cost of capital. Instructional methodology may include case studies, portfolio simulation, journal articles, presentations and spreadsheet construction, in addition to lectures. Prerequisites & Notes BUA 350 or equivalent or Business School Graduate Finance Tutorial; MBA student or permission from Business School Office of Graduate Programs. Credits: 3
Reason for Course Modification	Align to MBA core
Reason for Course Elimination	
Repeated for Credit	
Credits Allowed	
Completions Allowed	
Enroll Multiple Times in Term	
Distance Technology	
Prerequisite Modification	

Preparer	jamie.ballinger@maine.edu
Leader	jamie.ballinger@maine.edu
Leader approval	Approved
Leader approval date	09/20/21
Curriculum Committee Chair 1	
Curriculum Committee Chair 1 approval	
CC Chair 1 Approval Date	
College Dean 1	norman.oreilly@maine.edu
College Dean 1 approval	Approved
Dean 1 Approval Date	09/21/21
DLL Approval	
DLL Approval approval	
DLL Approval Date	
Cross Listed	No
Leader 2	
Leader 2 approval	
Leader 2 approval date	
Curriculum Committee Chair 2	
Curriculum Committee Chair 2 approval	

CC Chair 2 Approval Date	
College Dean 2	norman.oreilly@maine.edu
College Dean 2 approval	Approved
Dean 2 Approval Date	09/21/21

Comments

patricia.perry1@maine.edu | September 20, 2021 10:29 AM

@jamie.ballinger@maine.edu
I am sending this back to obtain the second signature from the Business Department.
Please enter Dean O'Reilly's email and resubmit!

Course Proposal

Row 9

Created	09/16/21 3:24 AM
Received Date	09/21/21
Syllabus Check	
GS Status	Pre-Review Complete
Status	Submitted to Grad School
Course Designator & Number	MBA 670
Academic Unit	Business
Effective Semester	SP22
Course Title	Managerial Marketing
Action	Modify an Existing Course
New Course Type	
Course Modification Type	Prerequisite Change
Proposed Catalog Description	
New Course Title	
New Course Designator & Number	
Prerequisites	Graduate Standing in a Degree or Certificate Program or Permission from the Graduate Business Office
Credit Hours	
Components	
Other Modification	

Text(s) Planned for Use	
Course Instructor	Varies
Reason for New Course	
Proposed Resources	No. The academic unit will not request additional resources for this course
Additional Resources Required	
Units Affected	
Course Frequency	3-6 times yearly
Current Catalog Description	
Reason for Course Modification	Align to MBA core
Reason for Course Elimination	
Repeated for Credit	
Credits Allowed	
Completions Allowed	
Enroll Multiple Times in Term	
Distance Technology	
Prerequisite Modification	
Preparer	jamie.ballinger@maine.edu
Leader	jamie.ballinger@maine.edu
Leader approval	Approved

Leader approval date	09/20/21
Curriculum Committee Chair 1	
Curriculum Committee Chair 1 approval	
CC Chair 1 Approval Date	
College Dean 1	norman.oreilly@maine.edu
College Dean 1 approval	Approved
Dean 1 Approval Date	09/21/21
DLL Approval	
DLL Approval approval	
DLL Approval Date	
Cross Listed	No
Leader 2	
Leader 2 approval	
Leader 2 approval date	
Curriculum Committee Chair 2	
Curriculum Committee Chair 2 approval	
CC Chair 2 Approval Date	
College Dean 2	norman.oreilly@maine.edu
College Dean 2	Approved

approval

Dean 2 Approval Date	09/21/21

Comments

patricia.perry1@maine.edu | September 20, 2021 10:29 AM

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Course Proposal

Row 2

Created	09/15/21 4:00 PM
Received Date	09/21/21
Syllabus Check	
GS Status	Pre-Review Complete
Status	Submitted to Grad School
Course Designator & Number	SED 505
Academic Unit	Learning & Teaching
Effective Semester	Spring 2022
Course Title	Diversity of Development in Childhood
Action	Modify an Existing Course
New Course Type	
Course Modification Type	Prerequisite Change
Proposed Catalog Description	
New Course Title	
New Course Designator & Number	
Prerequisites	change to "graduate standing" (currently CHF 450, SED 302, SED 402, SED 500 or permission)
Credit Hours	
Components	
Other Modification	

Text(s) Planned for Use	
Course Instructor	Dr. Mary Ellin Logue, Professor Emerita Early Childhood Education
Reason for New Course	
Proposed Resources	No. The academic unit will not request additional resources for this course
Additional Resources Required	
Units Affected	
Course Frequency	This course is offered each fall, it does not result in an overload.
Current Catalog Description	
Reason for Course Modification	Remove prerequisites and replace with "graduate standing". This course is an entry level foundations course for the special education program. The prerequisites limit enrollment.
Reason for Course Elimination	
Repeated for Credit	
Credits Allowed	
Completions Allowed	
Enroll Multiple Times in Term	
Distance Technology	
Prerequisite Modification	
Preparer	deborah.l.rooks@maine.edu
Leader	
Leader approval	

Leader approval date	
Curriculum Committee Chair 1	shihfen.tu@maine.edu
Curriculum Committee Chair 1 approval	Approved
CC Chair 1 Approval Date	09/21/21
College Dean 1	penny.bishop@maine.edu
College Dean 1 approval	Approved
Dean 1 Approval Date	09/21/21
DLL Approval	
DLL Approval approval	
DLL Approval Date	
Cross Listed	No
Leader 2	
Leader 2 approval	
Leader 2 approval date	
Curriculum Committee Chair 2	
Curriculum Committee Chair 2 approval	
CC Chair 2 Approval Date	
College Dean 2	
College Dean 2	

approval

Dean 2
Approval Date