Faculty Executive Board Meeting
August 22, 2018
8:30-10:30 am
Dean’s Conference Room

Members Present: Dr. Tom Baker, Dr. Steve Buchheit, Dr. Jose Dula, Dr. Allen Johnston, Dr. Peter Magnusson, Dr. Robert McLeod, Prof. Joyce Meyer, Dr. Paul Pecorino, Dr. Ed Schnee, Dr. Mesut Yavuz, Dr. Marilyn Whitman, Dr. Eric Williams.

Others Present: Dr. Jonathon Halbesleben, Dr. Dave Heggem, Mrs. Kati Hardemon (serving as recorder)

Dr. Schnee opened the meeting at 8:35 am

1. Election of the Chair – Nominations were called for the FEB Chair. Dr. Williams nominated Dr. Schnee for FEB Chair and was seconded by Dr. Pecorino. Dr. Schnee was unanimously approved as chair.

   Election of co-Chair – Nominations were then called for the co-chair. Dr. Whitman nominated Prof. Joyce Meyer co-chair and was seconded by Dr. Pecorino. Prof. Meyer was unanimously approved as co-chair.

2. Approval of FEB Committees - The committee reviewed the list of FEB committee members as recommended by the department heads. A motion was made by Dr. Williams to approve the list as presented and was seconded by Prof. Meyer. The committee appointments were unanimously approved.

3. Items from the MGT Department
   a. HCM 361 Changes – This proposal is being submitted as equivalent to a new course proposal. When the curriculum was developed in 2014, SQL training was a preferred qualification for graduates, now it has become a required qualification for most analyst positions and the course requires a change to adapt to the market needs. The name of the course would also be changed from “Healthcare Reimbursement Systems” to “Healthcare Data Structure.” A motion was made by Dr. Williams to send this to the Undergraduate Programs Committee (UPC) and was seconded by Dr. Dula. The motion passed unanimously.

4. Items from EFLS
   a. New Course Proposal EC 474 – A motion was made to send this to the UPC committee by Dr. Pecorino and was seconded by Dr. Dula. The motion passed unanimously.
b. **New Course Proposal EC 674** - A motion was made to send this to the PhD committee by Dr. Pecorino and was seconded by Dr. Dula. **The motion passed unanimously.**

c. **New Concentration Proposals** – **Economic Policy, Econometrics & Quantitative Economics and Financial Engineering.** A motion was made to send this to the UPC committee by Dr. McLeod and was seconded by Dr. Dula. **The motion passed unanimously.**

d. **New Minor Proposal Actuarial Sciences (resubmitted)**- This was with the FEB in spring there was some questions with the math and stats courses. The ISM department reviewed the proposal and approved it adding footnotes about which majors should take which courses. A motion was made by Dr. Pecorino to send this to the UPC committee and seconded by Dr. Mcleod. **The motion passed unanimously.**

5. **Items from the ISM Department – OM**
   a. Change prerequisite of OM 310: from "OM 300 and OM 385 or OM 305” to “OM 300 and OM 305”
   b. Change prerequisite of OM 420: from “ST 260 and OM 385 or OM 305” to “OM 305 and OM 310”
   c. Change prerequisite of OM 422: from “OM 321” to “OM 310”
   d. Prospective OM major students must officially declare OM as their major prior to enrolling in any 400-level OM major course (specifically, OM 420, OM 422, and OM 423)

Items A,B,C are being changed because the instructors require students to arrive at these courses more prepared. Dr. Yavuz made a motion to approve items A,B,C as non-substantive, the motion was seconded by Dr. Williams and unanimously approved.

Item D is currently a practice, but the OM faculty would like this to be a rule. Special permission can be given by the instructor to permit students outside of the major to take the course as needed. The FEB suggested that this be added to the requirement change. A motion was made to send this to the UPC committee with the suggested change by Dr. Yavuz, and seconded by Dr. Williams. **The motion passed unanimously.**

6. **Items from the ISM Department – MIS**
   a. **New Course Proposal MIS 420** – A motion was made by Dr. Johnston to send this proposal UPC Committee and was seconded by Dr. Agrawal. **The motion passed unanimously.**
   b. **New Course Proposals for MIS 515, 531, 561, 563** – These proposals have been approved by the Masters committee but we need to send these to the Faculty Forum. A motion was made by Prof. Meyer to send them to Forum and seconded by Dr. Johnston. **The motion passed unanimously.**

7. **Items from the MKT Department**
a. Changes to course titles and descriptions of the MKT courses. There are no significant changes in the 688 and 690; it is just to get them more in line with what is being taught in the course. 613 is being taught as a pure consumer behavior course, the class is more like the old description and to ensure that course is being taught as described. A motion was made by Dr. Williams to approve all three changes as non-substantive and was seconded by Dr. Agarwal. The motion passed with 10 in favor, 1 opposed.

MKT 688 “Survey of Marketing” to MKT 688 “Quantitative Modeling in MKT” and description
MKT 690 “Behavioral Theory and Methodology” to “Theory Development and Use” and description
MKT 613 “Behavioral Theory and Qualitative Methodology” to MKT 613 “Consumer Behavior” and description

8. Item from the Undergraduate Core Curriculum Committee
   a. Enhancing Undergraduate Student Pathways Proposal - This proposal was made to expose students to the business curriculum earlier, which was part of the college strategic plan. Currently, students must have junior standing (60 credits) and have passed all five lower-division functional field courses to take 300 level function field courses. The proposal is to reduce the course credit requirement from 60 to 30 hours and reduce the number of pre-requisites from the full set of lower-division functional field courses to courses that are specifically needed prior to taking the upper-division functional field courses. FEB discussed the advantages of the proposal for the students, plans to address the short-term increase in demand that this would create for the upper-division field courses.

   While FEB was not concerned about the change of sophomore standing, they had concerns about (1) whether the prerequisites proposed for each upper-division functional field course were appropriate and (2) the impact on courses beyond those upper-division functional field course (e.g., how this impacts prerequisites for major courses).

   A motion was made by Dr. Williams to send the proposal back to the UG CCC to address the concerns outlined above. The motion was seconded by Dr. McLeod. The motion was unanimously approved.

9. Approved Items from the UPC
a. **Course Credit Overlap Proposal** – This proposal addresses the counting of credit toward multiple degrees, majors, minors, or concentrations. For additional majors, a student would must meet the requirements of the major, plus take an additional 12 unique credit hours. For an additional minor or concentration, a student must take an additional 9 unique credit hours. A motion was made to approve this proposal and send it to the Faculty Forum by Dr. Buccheit and seconded by Dr. Agarwal. The **motion was unanimously approved**.

b. **Minors in Finance, Economics, and Risk Management/Insurance & Financial Service.** Dr. Buchheit made a motion to approve these minor proposals and send to the Faculty Forum, which was seconded by Dr. Agarwal. The **motion was unanimously approved**.

10. **Dean’s Office Updates**

a. **AACSB** – the review went well and we received our certificates yesterday. There were two main criticisms. First our AoL plan should be more in line with our strategic plan. Any changes to the curriculum would come through the FEB. The other was the academic qualifications with the faculty. This has already been mostly addressed with our new faculty hires and changes to the academic qualification policy, but we will continue to track it carefully.

c. **Administrative Changes** – Brian Gray is returning the the faculty and we are in the process of hiring a replacement Associate Dean for Manderson Graduate School of Business. Angel Oswalt has moved up to the Dean’s Office to work with HR issues and our hiring system. We are working on hiring a Director of Undergraduate Programs to help work with the FEB to make sure that we are keeping up with proposals and additional items.

d. **Pay raises** - changes will be effective Oct 1 to be consistent with the fiscal year, letters are prepared but will not be sent until the UA Board of Trustees has approved (anticipated to happen September 21).

e. **Enrollment** – We are down a bit in enrollment and may be down by a few students for fall compared to last year’s census.

f. **New Building** - The building plan will go to the UA Board of Trustees and there will be official fund raising after approval. The tentative date to open the building is 2021.

Dr. Schnee closed the meeting at 10:15.
FEB Meeting #1 AY 18-19

8:30-10:30 am

August 22, 2018

Dean’s Conference Room

1. Elect New Chair and Co-Chair
2. Approve Committee List
3. MGT Name/Content Changes
   a. HCM 361 “Healthcare Reimbursement Systems” to HCM 361 “Healthcare Date Structure” and content
4. EFLS
   a. New Course Proposal – EC 474 Experimental Economics
   b. New Course Proposal – EC 674 Experimental Economics
   c. New Concentration Proposal – Economic Policy
   d. New Concentration Proposal – Econometrics & Quantitative Economics
   e. New Concentration Proposal – Financial Engineering
   f. New Minor Resubmittal – Actuarial Sciences
5. OM Changes
   a. Change prerequisite of OM 310: from “OM 300 and OM 385 or OM 305” to “OM 300 and OM 305"
   b. Change prerequisite of OM 420: from “ST 260 and OM 385 or OM 305” to “OM 305 and OM 310”
   c. Change prerequisite of OM 422: from “OM 321” to “OM 310”
   d. Prospective OM major students must officially declare OM as their major prior to enrolling in any 400-level OM major course (specifically, OM 420, OM 422, and OM 423)
6. MIS Course Proposals
   a. MIS 420 Enterprise Application Development
   b. MIS 515 Intro to Programming
   c. MIS 531 Health IT
   d. MIS 561 Applied Cyber Security
   e. MIS 563 Behavioral Cyber Security
7. MKT Course Title/Descriptions
   a. MKT 688 “Survey of Marketing” to MKT 688 “Quantitative Modeling in MKT” and description
b. MKT 690 “Behavioral Theory and Methodology” to “Theory Development and Use” and description

c. MKT 613 “Behavioral Theory and Qualitative Methodology” to MKT 613 “Consumer Behavior” and description

8. UG CCC Enhancing Undergrad Student Pathways Proposal

9. Items from UPC – Tentative
   - Course Overlap Clarification
   - Finance Minor
   - Economics Minor
   - RMI Minor

10. Updates from the Dean’s Office
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PROPOSAL TO OFFER A NEW COURSE
COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION
THE UNIVERSITY OF ALABAMA

Department: Management
Course Number: HCM 361
Effective Date: Fall 2019

Date: 7/30/2018
Course Title: Healthcare Data Structures

PART ONE
(To be completed by the individual proposing the course.)

I.  GENERAL INFORMATION

   A.  Description (25 words or less).
   This course aims to educate students on handling foundational analytic concepts and
data structures germane to both privately own and government sponsored health care
organizations.

   B.  1. Prerequisite(s):  HCM 360
       2. Corequisite(s):  HCM 362
       3. Other:   ST 260 or equivalent

   C.  Course Level: Upper Division Undergraduate
       (Lower Division Undergraduate, Upper Division
       Undergraduate,
       Graduate I or Graduate II)

   D.  Format: Three (3) Credit Hours of lecture per week
       n/a Hours of discussion (recitation per week)
       n/a  Hours of laboratory (or field work) per week
       n/a Other instructional methods and modes:

   E.  Credit Hours: 3 credit hours
II. ACADEMIC INFORMATION

A. Course Objectives:
This course aims to develop critical thinking skills to analytic problems specific to health analytics. To accomplish this task, students will learn the basic tenets of relational databases and introductory-level querying through programming, as well as a refresh of concepts learned in introductory statistics taught in the scope of health care management. Given these considerations, the desired outcome of this course is to empower future health analysts to effectively work with database administrators and graduate-level trained statisticians in their pursuits to provide analytic solutions to contemporary health problems. This course will primarily use a SQL-based software platform to achieve its purpose and goals. Tableau © and IBM SPSS © will be introduced to demonstrate end-goal deliverables from datasets generated from SQL querying.

Learning Goals:
1. Develop an understanding of the basic concepts of data structures and algorithms
2. Provide a basic understanding of the concepts related to creating databases and tables through queries using T-SQL language
3. Develop an understanding of when to apply appropriate health analytic methodologies given available data structures
4. Provide an opportunity to work with real healthcare data from various sources for the purposes of learning how to write simple algorithms and solve problems with the help of fundamental data structures

B. What course or courses, if any, will this course replace? Implementation of this course, if it does not replace an existing course, may cause enrollment reductions in other courses. Please list all courses in which such enrollment declines may be expected.
Currently, HCM 361 is focused on healthcare reimbursement systems and is a required course for the Health Care Analytics program. We are simply proposing to change the content of the course to provide students with basic knowledge of data structures – an increasingly key qualifier for data analyst positions in the healthcare industry.

C. What is the justification for proposing the course at this time?
When we first developed the Health Care Analytics curriculum in 2014, the role of analysts in the industry did not require knowledge of data structuring techniques. Our industry contacts along with a review of analyst job descriptions at the time did not emphasize the need for students to have such knowledge. Analyst positions would list knowledge of SQL or Python as preferred qualifications. Recently, we’ve seen a shift in the needs of organizations as the role of analytics continues to develop in the industry – occupying a key role in driving clinical, operational, and financial efficiencies. Today, most analyst positions now call for SQL/Python knowledge as a required qualification. Our most recent cohort (class of 2018) found it difficult to secure employment due to the lack of data structuring knowledge. In order to ensure that future students have the necessary qualifications to be competitive candidates, we must incorporate data structuring in the curriculum. We did consider simply adding the content to an existing course and in fact piloted the attempt last semester in our capstone projects course. Our efforts did not result in the desired outcome.

D. Name the current faculty who are qualified to teach this course. What specific qualifications and capabilities must an individual have in order to teach this course?

Dr. Dwight Lewis has agreed to teach the course. Dr. Lewis has a keen understanding of SQL querying through his education and use of SQL Server while working on sponsored projects. Moreover, he has years of experience working with health database administrators in developing data infrastructures relevant to addressing and providing analytic solutions for health care organizational problems. Dr. Thomas English is also qualified to teach the course if needed.

E. This course is designed for the following curricula (programs):

Health Care Analytics

F. This course will be required for the following majors and minors:

HCM 361 is currently a required course in the Health Care Analytics curriculum.

G. Attach an outline of the course of at least one page in length and name any textbooks or principal readings that will be used. (This request is not
intended to bind future instructors to a detailed program, but only to establish the general scope, nature, and level of the course.)

PART TWO
(To be completed by the department head, alone or in consultation with the prosper.)

I. BUDGETARY INFORMATION

A. Anticipated frequency of offering:
   One (1) Section(s) each fall semester
   1 Section(s) each spring semester
   Click here to enter text. Section(s) during summer school
   Click here to enter text. According to demand
   Other: Initially this course will be offered every spring semester given the sequence of courses that students will need to follow. If for any reason we see the need to offer this course in either the spring or summer, we can certainly do so.

B. Estimated total enrollment:
   First Year: Approximately 35
   Second Year: Approximately 35
   Third Year: Approximately 35

C. Estimated capacity per section:
   Lecture: Approximately 40
   Discussion: Click here to enter text.
   Laboratory: Click here to enter text.

D. How does this course impact on the mission of the College and department?
   This course further strengthens the Health Care Analytics curriculum and develops the skills necessary to qualify for data analyst positions.

E. What resources will be needed to teach this course and where will they come from?
   No additional resources will be needed to teach this course.

F. Is there agreement within the department that the course is needed and that resources will be available to teach this course? There is agreement that this course is necessary. Without it, Health Care Analytics students will not have the necessary qualifications for entry level analyst positions.
G. Is there any indication that this course duplicates course work offered elsewhere in
the College or University? The nuances in healthcare (reimbursements, payor-
provider relationships, clinical/quality measures, coding, etc.) necessitates an
understanding of healthcare data structures using healthcare data. To our
knowledge, there is no other course that develops an understanding of when to apply
appropriate health analytic methodologies given available data structures. This course
will provide an opportunity to work with real healthcare data from various sources for
the purposes of learning how to write simple algorithms and solve problems with the
help of fundamental data structures.

II. EVALUATION
Describe the system of evaluation that will be used to determine whether this
course should be continued in the departmental program. (It would be helpful to
relate this system of evaluation to the kinds of information requested in PART ONE,
Section II-Academic Information and PART TWO, Section I-Budgetary Information).
The faculty members who teach in the Health Care Analytics program are
continuously reevaluating courses and content to keep up with the needs of
employers. We closely monitor student placements and have an ongoing dialogue
with industry contacts to ensure that we are adequately preparing our students to
be competitive in the job market.

Proposed by: ________________________________

Name

Date
Approved by: ____________________________________________________________________________

Department Head/Director

Date

_____________________________________________________________________________________

Dean

Date

Conditions of approval, if any: ____________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

Upon arrival, a course inventory form must be completed and forwarded to the Office for Academic Affairs.

(Revised 10/12)
HEALTHCARE DATA STRUCTURE
Semester YYYYY
HCM 361 Section 001

Instructor: Dwight Lewis PhD
231A Bidgood Hall
LEWIS060@cba.ua.edu
Office hours: TBD

Class Location & Time: Bruno Classroom 1,2,3 or 4
Course Days/Time

Required Text:
The required texts for this course go as follow:
2. “Sams Teach yourself SQL in 10 Minutes” by Ben Forta 4th edition ISBN: 0672336073 (Primary text for understanding basics of T-SQL querying)

Supplemental Texts (optional):
1. Required textbook used for ST 260. Textbook used while enrolled in ST 260 is sufficient.

Assigned textbooks should be viewed as references to build effective queries. As opposed to traditional assigned “required readings,” students are to submit tutorials uploaded on the course website prior to class. Assigning tutorials prior to lecture will empower students to “know what they do not know” and stimulate meaningful dialogue during class. Should the instructor receive evidence that students are not engaged in class, and not doing tutorials on an individual basis, the class may be subject to pop quizzes that will alter the grading rubric for this course!

Course Description:
This course aims to develop critical thinking skills to analytic problems specific to health analytics. To accomplish this task, students will learn the basic tenets of relational databases and introductory-level querying through programming, as well as a refresh of concepts learned in introductory statistics taught in the scope of health care management. Given these considerations, the desired outcome of this course is to empower future health analysts to effectively work with database administrators and graduate-level trained statisticians in their pursuits to provide analytic solutions to contemporary health problems. This course will primarily use a SQL-based software platform to achieve its purpose and goals. Tableau © and IBM SPSS © will be introduced to demonstrate end-goal deliverables from datasets generated from SQL querying.

Course Objectives/ Student Learning Outcomes:
Upon completion of this course students should:
- Develop an understanding of the basic concepts of data structures and algorithms
- Provide a basic understanding of the concepts related to creating databases and tables through queries using T-SQL language
- Develop an understanding of when to apply appropriate health analytic methodologies given available data structures
- Provide an opportunity to work with real healthcare data from various sources for the purposes of learning how to write simple algorithms and solve problems with the help of fundamental data structures
**Prerequisites:**
Students must have received a C- or higher in HCM 360 and ST 260 (or equivalent), and currently enrolled in HCM 362. Should spots become available for the course, students not meeting these requirements must have approval from a faculty member of the Health Analytics prior to enrollment.

**Course Assignments**
There are weekly tutorials for most weeks in this course that will cover weekly topics of discussion, which are to be completed by 11:59PM, Monday of each week. The tutorials are open book and are completed outside of class using Blackboard. Each tutorial is graded with points that contribute to your Final Grade. The course midterm will be a “live” 1.5 hour timed analytic task using SQL program scripting, while the final exam will be in the form of a comprehensive database project synthesizing concepts covered in the class’ entirety.

**Policy on Make-up Coursework:**
No late submissions for assignments will be accepted. Though not guaranteed, the instructor will make every effort to allot some class time to work on the more challenging class assignments.

**Academic Honor Code and Misconduct:**
All acts of dishonesty in any work constitute academic misconduct. This includes, but is not limited to, cheating, plagiarism, fabrication of information, misrepresentations, and abetting of any of the above. The Academic Misconduct Disciplinary Policy will be followed in the event that academic misconduct occurs. Students should refer to the Student Affairs Handbook, which can be obtained in the Office of Student Life and Services in the Ferguson Center.

**Disability Accommodations:**
If you are registered with the Office of Disability Services, please make an appointment with me as soon as possible to discuss any course accommodations that may be necessary. If you have a disability, but have not contacted the Office of Disability Services, please call (205) 348-4285 (Voice) or (205) 348-3081 (TTY) or visit 133-B Martha Parham Hall East to register for services. Students who may need course adaptations because of a disability are welcome to make an appointment to see me during office hours. Students with disabilities must be registered with the Office of Disability Services, 133-B Martha Parham Hall East, before receiving academic adjustments.

**Inclusivity Statement**
The University of Alabama is committed to an ethical, inclusive community defined by respect and civility. The UAct website (www.ua.edu/uact) provides a list of reporting channels that can be used to report incidences of illegal discrimination, harassment, sexual assault, sexual violence, retaliation, threat assessment or fraud.

**Severe Weather Guidelines:**
The guiding principle at The University of Alabama is to promote the personal safety of our students, faculty and staff during severe weather events. It is impossible to develop policies which anticipate every weather-related emergency. These guidelines are intended to provide additional assistance for responding to severe weather on campus.

UA is a residential campus with many students living on or near campus. In general classes will remain in session until the National Weather Service issues safety warnings for the city of Tuscaloosa. Clearly, some students and faculty commute from adjacent counties. These counties may experience
weather related problems not encountered in Tuscaloosa. Individuals should follow the advice of the National Weather Service for that area taking the necessary precautions to ensure personal safety. Whenever the National Weather Service and the Emergency Management Agency issue a warning, people in the path of the storm (tornado or severe thunderstorm) should take immediate life saving actions.

When West Alabama is under a severe weather advisory, conditions can change rapidly. It is imperative to get to where you can receive information from the National Weather Service and to follow the instructions provided. Personal safety should dictate the actions that faculty, staff and students take.

The Office of University Relations will disseminate the latest information regarding conditions on campus in the following ways:
1. Weather advisory posted on the UA homepage
2. Weather advisory sent out through UA Alerts to faculty, staff and students
3. Weather advisory broadcast over WVUA at 90.7 FM
4. Weather advisory broadcast over Alabama Public Radio (WUAL) at 91.5 FM
5. Weather advisory broadcast over WVUA-TV/WUOA-TV, and on the website at http://wvuatv.com/content/weather. WVUA-TV Home Team Weather provides a free service you can subscribe to which allows you to receive weather warnings for Tuscaloosa via e-mail or cell phone. Check http://wvuatv.com/content/free-email-weather-alerts for more details and to sign up for weather alerts.

In the case of a tornado warning (tornado has been sighted or detected by radar; sirens activated), all university activities are automatically suspended, including all classes and laboratories. If you are in a building, please move immediately to the lowest level and toward the center of the building away from windows (interior classrooms, offices, or corridors) and remain there until the tornado warning has expired. Classes in session when the tornado warning is issued can resume immediately after the warning has expired at the discretion of the instructor. Classes that have not yet begun will resume 30 minutes after the tornado warning has expired provided at least half of the class period remains.

Grading Policy:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Units</th>
<th>Points per Unit</th>
<th>Total Points</th>
<th>Percent of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments/Tutorials</td>
<td>14</td>
<td>25</td>
<td>350</td>
<td>35%</td>
</tr>
<tr>
<td>Course Participation (Discussion)</td>
<td>1</td>
<td>Varied</td>
<td>200</td>
<td>20%</td>
</tr>
<tr>
<td>Midterm</td>
<td>1</td>
<td>200</td>
<td>200</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam Project</td>
<td>1</td>
<td>250</td>
<td>250</td>
<td>25%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1,000</strong></td>
<td><strong>1,000</strong></td>
<td><strong>1,000</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

***Students concerned about their grade should see me as soon as possible. DO NOT wait until the end of the semester.***
<table>
<thead>
<tr>
<th>Date</th>
<th>Session Schedule</th>
<th>Tutorial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Review of syllabus, course expectations, introduction of SQL and databases, and installing VPN to access SQL Server database</td>
<td></td>
</tr>
<tr>
<td>Week 2</td>
<td>Overview of database objects and introduction to data types, using databases, and tables</td>
<td>Tutorial 1 (25 pts)</td>
</tr>
<tr>
<td>Week 3</td>
<td>Introduction of database constraints, primary keys, foreign keys, and SELECT statements for writing basic SQL Queries</td>
<td>Tutorial 2 (25 pts)</td>
</tr>
<tr>
<td>Week 4</td>
<td>Performing JOINS to merge tables within and across databases</td>
<td>Tutorial 3 (25 pts)</td>
</tr>
<tr>
<td>Week 5</td>
<td>Using row functions, the case function, and handling null values in health analytics</td>
<td>Tutorial 4 (25 pts)</td>
</tr>
<tr>
<td>Week 6</td>
<td>Advanced query techniques 1: aggregate functions, group by clause, having clause, alter and drop functions</td>
<td>Tutorial 5 (25 pts)</td>
</tr>
<tr>
<td>Week 7</td>
<td>Advanced query techniques 2: subqueries, stacking tables, converting tables from long-to-wide and vice versa</td>
<td>Tutorial 6 (25 pts)</td>
</tr>
<tr>
<td>Week 8</td>
<td>Complex queries: effectively scanning text using like function and using partitioned aggregate functions</td>
<td>Tutorial 7 (25 pts)</td>
</tr>
<tr>
<td>Week 9</td>
<td><strong>Midterm</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Note: Class attendance for midterm review is optional</td>
<td></td>
</tr>
<tr>
<td>Week 10</td>
<td>SQL queries dealing with ICD-10 Claims data, discussion of Final Exam project, and in-class instruction of using Trello ©</td>
<td>Tutorial 8 (25 pts)</td>
</tr>
<tr>
<td>Week 11</td>
<td>Review of statistical concepts and introduction to selecting appropriate models given available data</td>
<td>Tutorial 9 (25 pts) and Tutorial 10 (25 pts)</td>
</tr>
<tr>
<td>Week 12</td>
<td>Introduction of analytic methodologies commonly used in the health analytics of administrative data part 1</td>
<td>Tutorial 11 (25 pts)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Progress report of final (25 pts)</td>
</tr>
<tr>
<td>Date</td>
<td>Session Schedule</td>
<td>Tutorial</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Week 13</td>
<td>Introduction of analytic methodologies commonly used in the health analytics of administrative data part 2</td>
<td>Tutorial 12 (25 pts)</td>
</tr>
<tr>
<td>Week 14</td>
<td>Connecting SQL Server to the following data software platforms: Tableau, Power BI, and SPSS. Will also cover appropriate queries to build effective visualizations for Tableau.</td>
<td>Tutorial 13 (25 pts)</td>
</tr>
<tr>
<td>Week 15</td>
<td>Work on final</td>
<td>No tutorials</td>
</tr>
<tr>
<td>Week 16</td>
<td>Work on final</td>
<td>Final Exam due (250 pts)</td>
</tr>
</tbody>
</table>
PROPOSAL TO OFFER A NEW COURSE
Culverhouse College of Commerce
The University of Alabama

Department: Economics, Finance and Legal Studies
Course Number: EC 674
Course Title: Experimental Economics
Effective Date: 01/01/2019

PART ONE
(To be completed by the individual proposing the course.)

I. GENERAL INFORMATION
   a. Description (25 words or less): This course introduces Ph.D. students to the field of experimental
economics. The course covers methodological issues with designing and conducting experiments and
interpreting the results.
   b. Prerequisite(s): None
   Corequisite(s): None
   Other: Students must have been admitted to a Ph.D. program at the University of Alabama
   c. Course Level (circle one):
      Lower Division Undergraduate
      Upper Division Undergraduate
      Masters
      Doctoral
   d. Schedule Type (circle one):
      LEC – Lecture: uses traditional format.
      SEM – Seminar: includes student or guest speakers.
      IND – Independent Study: involves self-paced study. (excluded from SOI)
      FLD – Field Experience: involves work/study outside of a classroom setting.
      LAB – Laboratory: held in a laboratory setting.
      RCT – Recitation: uses break out discussion groups.
   e. Credit Hours: 3

II. ACADEMIC INFORMATION
   a. Course Objectives:
      This is a research oriented course designed to introduce Ph.D. students to the field of experimental
economics. The course covers methodological issues with designing and conducting experiments and
interpreting the results. It provides an overview of the findings in some of the research areas that have been studied using experimental techniques. Students are expected to read assigned material prior to the class in which the material is to be discussed. Students are also expected to actively participate in class experiments and discussions. Course Objectives include

1. Explain the distinction between an economic experiment and other types of social science research.
2. Evaluate the quality of an experimental design and the credibility of the resulting research findings.
3. Conduct an economic experiment.
4. Describe the typical patterns of behavior observed in standard economic experiments including auctions, public goods provision, markets, risk taking, contests, and strategic games.

b. What course or courses, if any, will this course replace? Implementation of this course, if it does not replace an existing course, may cause enrollment reductions in other courses. Please list all courses in which such enrollment declines may be expected.
This course is an elective course for 2nd and 3rd year Ph.D. Students in Economics. It was offered for the first time in the spring semester of 2018 as EC 597 (7 students).

c. What is the justification for proposing the course at this time?
Experimental Economics is a dominant field of research in economics. It sheds new light on many old and important economic issues and also provides a broad range of applications in other fields. The new behavioral and experimental lab will provide teaching and research opportunities for economics students. The Department is building a behavioral group of researchers. This course will allow graduate students with interests in the area of behavioral economics to use the new lab and develop the research skills in the area of behavioral economics.

d. Name the current faculty who are qualified to teach this course. What specific qualifications and capabilities must an individual have in order to teach this course?
Qualified faculty members include Cary Deck, Michael Price, Mark Schneider and Laura Razzolini.

e. This course is designed for the following programs:
Ph.D. in Economics and related Ph.D. programs (such as Finance, Accounting, Management, and Marketing)

f. This course will be required for the following programs (majors, minors, or specializations):
This course will not be required.
g. How will this course affect assessment of student learning in the College? Does it address established student learning goals? Does it impact current measurement plans for those goals? Attach an updated curriculum map for the degree program in which the course will be offered.

This course supports the curriculum goals stated in the curriculum map. At the present time, it does not impact the current measurement plans for those goals, but the College assessment team is aware of the course and is considering how measurement plans could be modified to incorporate it.

h. Attach an outline of the course of at least one page in length and name any textbooks or principal readings that will be used. (This request is not intended to bind future instructors to a detailed program, but only to establish the general scope, nature and level of the course.).
PART TWO
(To be completed by the department head, alone or in consultation with the proposer.)

I. BUDGETARY INFORMATION

a. Anticipated frequency of offering:
   1 section(s) each fall semester  0 section(s) each spring semester
   0 section(s) during summer school  0 according to demand

b. Estimated total enrollment:
   First Year: 7
   Second Year: 7
   Third Year 7

c. Estimated capacity per section:
   Lecture: 28
   Other: TIDE Lab has at most 28 computer stations available.

d. How does this course impact the mission of the College and department?
   This course will provide our Ph.D. students with important tools for conducting high-quality research.
   Together with the new experimental lab, this course will allow supporting behavioral research across many disciplines in the College of Business.

e. What resources will be needed to teach this course and where will they come from?
   Instructors are in place. No additional resources will be utilized.

f. Is there agreement within the department that the course is needed and that resources will be available to teach this course?
   Yes.

g. Is there any indication that this course duplicates course work offered elsewhere in the College or University?
   No.
II. EVALUATION

a. Describe the system of evaluation that will be used to determine whether this course should be continued in the departmental program. (It would be helpful to relate this system of evaluation to the kinds of information, requested in PART ONE, Section II-Academic Information and PART TWO, Section I-Budgetary Information).

The course will be reviewed annually and evaluated against the College’s plans for all graduate study offerings. Evaluation criteria will include enrollment, placement of graduates, support from UA administration and various College stakeholders.

Proposed by: Paan Jindapon August 8, 2018

Approved by: _______________________________ ________________________
Department Head/Director Date

_______________________________ ________________________
Dean Date

Conditions of approval, if any:

____________________________________________________________________________
____________________________________________________________________________

Upon final approval, a course inventory form must be completed and forwarded to the Office for Academic Affairs.
Course Outline

Experimental Economics

ECON 597: PhD Experimental Economics Spring 2018
Instructor: Dr. Cary Deck Office: 249 Alston e-mail: cdeck@cba.ua.edu
Phone: 348-8972 Office Hours: 6:15-7:15 T&R and by appointment

Course Description
ECON 597-006 is a research oriented course designed to introduce PhD students to the field of experimental economics. The course covers methodological issues with designing and conducting experiments and interpreting the results. It provides an overview of the findings in some of the research areas that have been studied using experimental techniques. Students are expected to read assigned material prior to the class in which the material is to be discussed. Students are also expected to actively participate in class experiments and discussions.

Course Objectives
• Explain the distinction between an economic experiment and other types of social science research.
• Evaluate the quality of an experimental design and the credibility of the resulting research findings.
• Conduct an economic experiment.
• Describe the typical patterns of behavior observed in standard economic experiments including auctions, public goods provision, markets, risk taking, contests, and strategic games.

Suggested Readings
• Experimental Methods, A Primer for Economists by Friedman and Sunder
• The Methodology of Experimental Economics by Guala
• Economics Lab by Friedman and Cassar
Components of Course Grade

Your grade in this class will be based on the following components:

- **Class Participation (45 points)** – This includes participating in class experiments (10 points), completing assigned readings and engaging in class discussion (20 points), observing an economics research experiment in TIDE Lab (5 points), and presenting to the class as assigned (10 points).

- **Project (35 points)** – Each student will identify a research question, conduct a literature review, and develop an experimental design. At the end of the semester, each student will present his or her research project to the class (10 points) and provide a written paper (25 points).

- **Reports (20 points)** – Each student will prepare two referee reports on working papers. Each report will be worth 10 points.

Readings


PART ONE
(To be completed by the individual proposing the course.)

I. GENERAL INFORMATION

a. Description (25 words or less): This course introduces students to the field of experimental economics. The course covers methodological issues with designing and conducting experiments and interpreting the results.

b. Prerequisite(s): EC 110 (with a minimum grade of C-) and EC 111 (with a minimum grade of C-)
   Corequisite(s): None
   Other:

c. Course Level (circle one):
   Lower Division Undergraduate
   Upper Division Undergraduate
   Masters
   Doctoral

d. Schedule Type (circle one):
   LEC – Lecture: uses traditional format.
   SEM – Seminar: includes student or guest speakers.
   IND – Independent Study: involves self-paced study. (excluded from SOI)
   FLD – Field Experience: involves work/study outside of a classroom setting.
   LAB – Laboratory: held in a laboratory setting.
   RCT – Recitation: uses break out discussion groups.

e. Credit Hours: 3

II. ACADEMIC INFORMATION

a. Course Objectives:

   This is a research oriented course designed to introduce students to the field of experimental economics. The course covers methodological issues with designing and conducting experiments and interpreting the results.
It provides an overview of the findings in some of the research areas that have been studied using experimental techniques. Course Objectives include

1. Explain the distinction between an economic experiment and other types of social science research.
2. Evaluate the quality of an experimental design and the credibility of the resulting research findings.
3. Conduct an economic experiment.
4. Describe the typical patterns of behavior observed in standard economic experiments including auctions, public goods provision, markets, risk taking, contests, and strategic games.

b. What course or courses, if any, will this course replace? Implementation of this course, if it does not replace an existing course, may cause enrollment reductions in other courses. Please list all courses in which such enrollment declines may be expected.

This course is an elective course for an Economics major. It is also an elective course for Econometrics and Quantitative Economics Concentration. It was offered for the first time in the spring semester of 2018 as EC 497 (12 students).

c. What is the justification for proposing the course at this time?

Experimental Economics is a dominant field of research in economics. It sheds new light on many old and important economic issues and also provides a broad range of applications in other fields. The new behavioral and experimental lab will provide teaching and research opportunities for economics students. This course will allow students with interests in the area of behavioral economics to use the new lab.

d. Name the current faculty who are qualified to teach this course. What specific qualifications and capabilities must an individual have in order to teach this course?

Qualified faculty members include Cary Deck, Michael Price, Mark Schneider and Laura Razzolini.

e. This course is designed for the following programs:

Economics Major and Econometrics and Quantitative Economics Concentration

f. This course will be required for the following programs (majors, minors, or specializations):

This course will not be required.

g. How will this course affect assessment of student learning in the College? Does it address established student learning goals? Does it impact current measurement plans for those goals? Attach an updated curriculum map for the degree program in which the course will be offered.

This course supports the curriculum goals stated in the curriculum map. At the present time, it does not
impact the current measurement plans for those goals, but the assessment team is aware of the course and is considering how measurement plans could be modified to incorporate it.

h. Attach an outline of the course of at least one page in length and name any textbooks or principal readings that will be used. (This request is not intended to bind future instructors to a detailed program, but only to establish the general scope, nature and level of the course.).
PART TWO
(To be completed by the department head, alone or in consultation with the proposer.)

I. BUDGETARY INFORMATION
   a. Anticipated frequency of offering:
      1 section(s) each fall semester  0 section(s) each spring semester
      0 section(s) during summer school  0 according to demand

   b. Estimated total enrollment:
      First Year: 28
      Second Year: 28
      Third Year: 28

   c. Estimated capacity per section:
      Lecture: 28
      Other: TIDE Lab has 28 computer stations available to economics students at most.

   d. How does this course impact the mission of the College and department?
      This course will provide our students with important tools for conducting research in the area of behavioral economics. Together with the new experimental lab, this course will allow supporting behavioral research across many disciplines in the College of Business.

   e. What resources will be needed to teach this course and where will they come from?
      Instructors are in place. No additional resources will be utilized.

   f. Is there agreement within the department that the course is needed and that resources will be available to teach this course?
      Yes.

   g. Is there any indication that this course duplicates course work offered elsewhere in the College or University?
      No.
II. EVALUATION

a. Describe the system of evaluation that will be used to determine whether this course should be continued in the departmental program. (It would be helpful to relate this system of evaluation to the kinds of information, requested in PART ONE, Section II-Academic Information and PART TWO, Section I-Budgetary Information).

The course will be reviewed annually and evaluated against the College’s plans for all undergraduate study offerings. Evaluation criteria will include enrollment, placement of graduates, support from UA administration, and various College stakeholders.

Proposed by: Paan Jindapon      August 8, 2018

Approved by: _______________________________  ________________________
Department Head/Director                        Date

_______________________________ ________________________
Dean                                  Date

Conditions of approval, if any:
____________________________________________________________________________
____________________________________________________________________________

Upon final approval, a course inventory form must be completed and forwarded to the Office for Academic Affairs.
Course Outline

Experimental Economics

ECON 497: Undergraduate Experimental Economics Spring 2018, TR 5:00-6:15
Instructor: Dr. Cary Deck Office: 249 Alston e-mail: cdeck@cba.ua.edu Phone: 205-348-8972
Office Hours: 6:15-7:15 T&R and by appointment

Course Description
This is a research oriented course designed to introduce students to the field of experimental economics. The course covers methodological issues with designing and conducting experiments and interpreting the results. It provides an overview of the findings in some of the research areas that have been studied using experimental techniques.

Course Objectives
1. Explain the distinction between an economic experiment and other types of social science research. 2. Evaluate the quality of an experimental design and the credibility of the resulting research findings. 3. Conduct an economic experiment. 4. Describe the typical patterns of behavior observed in standard economic experiments including auctions, public goods provision, markets, risk taking, contests, and strategic games.

Components of Course Grade
Exams: There are two closed-book exams. Each exam will consist of some combination of problems, short answer, and essays. Make-up exams will only be given if
1) the absence is due to an official university activity for which the student is required to participate and documentation is provided in advance or
2) the absence is due to an emergency and appropriate documentation is provided.
• In-Class Exam: 20 points
• Final Exam: 20 points

Participation: This class requires you to be an active participant in both class experiments and discussions. This impacts not only your own learning and enjoyment of the class but the learning and enjoyment of others. For the class experiments to be successful, we need everyone to show up
at the appropriate place on time. To be able to discuss the topic covered in class you need to have read the assigned materials. As such attendance, preparation and promptness are mandatory. The points for the participation portion of your grade are earned. There are no make-up opportunities for participation grades. Failure to be prepared and engaged can result in a reduced grade. Disruptions and distractions (such as cell phones and non-class related materials) should be avoided. Behavior deemed inappropriate by the instructor can result in a grade penalty.

- Experiments: 14 points (2 points per experiment up to 14 points)
- Quizzes: 11 points (1 point per reading quiz up to 11 points)
- Discussion: 5 points

Group Project: Students will work in groups, typically 4 people per group, to design and run a field experiment. A one page proposal is required prior to beginning the project and is due March 1st. The project will be presented in class at the end of the semester. An electronic copy of the presentation must be submitted as well. Groups should be meeting with me regularly to talk about their projects.

Students will earn class dollars during class experiments. Presentation timeslots will be auctioned off using class dollars earned through the class experiments.

- Project: 20 points
- Presentation: 10 points

CITI Training: The University of Alabama offers Non-Medical Investigators training for those who conduct human subjects research at http://osp.ua.edu/site/irb_training.html.

- Certification: 5 points

**Required Course Materials (Readings)**
The reading list is tentative and subject to change.


Proposal for two new Concentrations at the
Department of Economics, Finance and Legal Studies
Culverhouse College of Business
University of Alabama

August 13, 2018

This proposal is for two new concentrations for Economics majors:
• Economic Policy
• Econometrics & Quantitative Economics.

The Economic Policy merges three previous concentrations – Applied Microeconomics, Public Policy & Law, Macro and Monetary Economics.
The Econometrics & Quantitative Economics merges two previous concentrations – Econometrics and Forecasting and Quantitative Economics.

Features of a Concentration
• 9-18 hours of course credit
• Required Approvals: Department Faculty, FEB, Faculty, Dean, Provost, President, submission to BOT and ACHE.

Rationale for the new Concentrations
The two new economic concentrations are proposed to address low enrollment numbers in the economic concentrations currently offered. The Economic Policy concentration combines the current EC concentrations of Applied Microeconomics, Public Policy and Law and Macroeconomics and Monetary economics. The new Econometrics & Quantitative Economics concentration combines the current concentrations of Econometrics & Forecasting and Quantitative Economics. By merging the different economics concentrations, we will address the low enrollment issue.

Requirements for Economics Major

<table>
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<tr>
<th>Required Courses</th>
<th>Hours</th>
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<tr>
<td>EC 308 Intermediate Microeconomics</td>
<td>3</td>
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<tr>
<td>EC 309 Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FI 301 Introduction to Financial Institutions and Markets</td>
<td>3</td>
</tr>
<tr>
<td>3 Elective Economic Courses (chosen from group A and B)</td>
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<td>Total:</td>
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<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FI 302 Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>FI 389 Financial Analysis Modeling – Core Computer Language Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Total:</td>
<td>6</td>
</tr>
</tbody>
</table>
Economic Policy Concentration:
3 Elective Economic Courses from group A

Econometrics & Quantitative Economics Concentration:
3 Elective Economic Courses from group B

List of Electives – Group A

- **EC 410 Law and Economics.**
  - Hours: 3
  - Description: This course will use the tools of economic analysis to analyze public policy issues and to explore the intersections between the law and economics. Writing proficiency is required for a passing grade in this course.
  - Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

- **EC 412 Industrial Organization.**
  - Hours: 3
  - Description: Study of the various types of industry structure, conduct, and performance; business strategies; and policy alternatives. Emphasizes case studies from the major types of industry.
  - Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

- **EC 416 Monetary Theory & Policy.**
  - Hours: 3
  - Description: Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.
  - Prerequisite(s): Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **EC 422 Urban Economics.**
  - Hours: 3
  - Description: Analysis of the economics of community growth and the application of economic principles in solving problems and exploiting opportunities generated by the process of urban development.
  - Prerequisite(s): Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **EC 423 Public Economics.**
  - Hours: 3
  - Description: Study of the principles of taxation, government expenditures, borrowing, and fiscal administration.
  - Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

- **EC 430 International Trade.**
  - Hours: 3
  - Description: Analysis of theoretical principles underlying international trade, with application of these principles to recent developments and to current national policies.
  - Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-
• **EC 431 International Finance.**
  o Hours: 3
  o Description: Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
  o Prerequisite(s): Undergraduate level FI 301 Minimum Grade of C- or Undergraduate level EC 309 Minimum Grade of C- or Undergraduate level EC 430 Minimum Grade of C-

• **EC 460 Labor Economics.**
  o Hours: 3
  o Description: This course provides an overview of labor economics. Topics covered include labor supply, labor demand, human capital, minimum wages, immigration, and discrimination.
  o Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

• **EC 480 Economics of Environment.**
  o Hours: 3
  o Description: Survey of the techniques used to estimate benefits of environmental improvements, and an analysis of public policy relating to the environment and use of natural resources.
  o Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

• **EC 483 Health Care Economics.**
  o Hours: 3
  o Description: An investigation of the microeconomics of the American health care delivery system. The course focuses on the demand for and supply of health care services and emphasizes the efficiency and equity characteristics of the system.
  o Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

**List of Electives – Group B**

• **EC 413 Economic Forecasting & Analysis.**
  o Hours: 3
  o Description: Survey of the analytical techniques used by economists to forecast the macro and micro levels of economic activity and the effects of public policy on the economy. Computing proficiency is required for a passing grade in this course.
  o Prerequisite(s): (Undergraduate level ST 260 Minimum Grade of C- or (Undergraduate level ST 250 Minimum Grade of C- and Undergraduate level ST 251 Minimum Grade of C-)) and Undergraduate level EC 308 Minimum Grade of C- and Undergraduate level EC 309 Minimum Grade of C-

• **EC 470 Introduction to Mathematical Economics.**
  o Hours: 3
  o Description: Application of selected mathematical methods to the analysis of economic problems.
  o Prerequisite(s): Undergraduate level EC 309 Minimum Grade of C-

• **EC 471 Econometrics.**
  o Hours: 3
Description: This course emphasizes statistical methods for analyzing data used by social scientists. Topics include simple and multiple regression analyses and the various methods of detecting and correcting data problems such as autocorrelation and heteroscedasticity.

Prerequisite(s): (Undergraduate level MATH 121 Minimum Grade of C- or Undergraduate level MATH 125 Minimum Grade of C- or Undergraduate level MATH 145 Minimum Grade of C-) and (Undergraduate level ST 260 Minimum Grade of C- or (Undergraduate level ST 250 Minimum Grade of C- and Undergraduate level ST 251 Minimum Grade of C-)) and Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **EC 472 Financial Econometrics.**
  - Hours: 3
  - Description: This course is intended to provide a modern and up-to-date presentation of financial econometrics, and introduce students to appropriate techniques for empirical investigation in financial economics, asset pricing and risk management.
  - Prerequisite(s): (Undergraduate level MATH 121 Minimum Grade of C- or Undergraduate level MATH 125 Minimum Grade of C- or Undergraduate level MATH 145 Minimum Grade of C-) and (Undergraduate level ST 260 Minimum Grade of C- or (Undergraduate level ST 250 Minimum Grade of C- and Undergraduate level ST 251 Minimum Grade of C-)) and Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **EC 473 Games and Decisions.**
  - Hours: 3
  - Description: An introduction to game theory with emphasis on application. Game theory is a toolbox for analyzing situations where decision makers influence one another.
  - Prerequisite(s): Undergraduate level MATH 121 Minimum Grade of C- or Undergraduate level MATH 125 Minimum Grade of C- or Undergraduate level MATH 145 Minimum Grade of C-

- **EC 474 Experimental Economics (new proposed course)**
  - Hours: 3
  - Description: This is a research oriented course designed to introduce students to the field of experimental economics. The course covers methodological issues with designing and conducting experiments and interpreting the results.
  - Prerequisite(s): Undergraduate level EC 110 Minimum Grade of C- and EC 111 Minimum Grade of C-
Proposal for Financial Engineering Concentration
at the
Department of Economics, Finance and Legal Studies
Culverhouse College of Business
University of Alabama

August 13, 2018

This proposal is for a new concentration for Finance majors. It is a merger of two previous concentrations, Investment Management and Quantitative Finance.

Features of a Concentration

- 9-18 hours of course credit
- Required Approvals: Department Faculty, FEB, Faculty, Dean, Provost, President, submission to BOT and ACHE

Rationale for the new Concentration

The Financial Engineering concentration combines the current FI concentrations of Investment Management and Quantitative Finance. The Quantitative Finance Concentration has had only 16 students over the past three years combined. By merging it with the Investment Management concentration, we will address this low enrollment issue. The reason for the name change to Financial Engineering is to address a concern raised by ACHE of having two concentrations with the term ‘Investment’ in its name. The other is the recently approved Value Investing concentration.

Courses

<table>
<thead>
<tr>
<th>Required Courses For Finance Majors</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 308 Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 309 Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FI 301 Introduction to Financial Institutions and Markets</td>
<td>3</td>
</tr>
<tr>
<td>FI 410 Intermediate Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FI 412 Money and Capital Markets</td>
<td>3</td>
</tr>
<tr>
<td>FI 414 Investments</td>
<td>3</td>
</tr>
<tr>
<td>Total:</td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Core Courses For Finance Majors</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FI 302 Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>FI 389 Financial Analysis Modeling – Core Computer Language Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Total:</td>
<td>6</td>
</tr>
<tr>
<td>Required Courses for Financial Engineering Concentration</td>
<td>Hours</td>
</tr>
<tr>
<td>-------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Math 227 <em>Calculus III</em></td>
<td>4</td>
</tr>
<tr>
<td>FI 419 <em>Financial Derivatives</em></td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose one of the following Accounting courses** 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 352 <em>Corporate Financial Reporting</em> (3 hours)</td>
<td>3</td>
</tr>
<tr>
<td>AC 444 <em>Financial Analysis for Investing</em> (3 hours)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose two of the following electives** 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 413 <em>Economic Forecasting and Analysis</em> (3 hours)</td>
<td>3</td>
</tr>
<tr>
<td>FI 472 <em>Financial Econometrics</em> (3 hours)</td>
<td>3</td>
</tr>
<tr>
<td>FI 415 <em>Advanced Investments</em> (3 hours)</td>
<td>3</td>
</tr>
<tr>
<td>ST 454 <em>Mathematical Statistics I</em> (3 hours)</td>
<td>3</td>
</tr>
<tr>
<td>ST 455 <em>Mathematical Statistics II</em> (3 hours)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Courses list

- **AC 352 Corporate Financial Reporting.**
  - Hours: 3
  - Prerequisite(s): AC 210 or AC 201 and AC 202

- **AC 444 Financial Analysis for Investing.**
  - Hours: 3
  - Description: Discussion of a common framework for the analysis of general purpose financial statement information. Includes discussions of the accounting process and availability of financial information, selected intermediate and advanced accounting concepts, required disclosures, modeling & valuation implications, and various analytical techniques available to the investment professional.
  - Prerequisite(s): 

- **EC 413 Economic Forecasting & Analysis.**
  - Hours: 3
  - Description: Survey of the analytical techniques used by economists to forecast the macro and micro levels of economic activity and the effects of public policy on the economy. Computing proficiency is required for a passing grade in this course.
  - Prerequisites: EC 308 and EC 309

- **EC 472 Financial Econometrics.**
  - Hours: 3
  - Description: This course is intended to provide a modern and up-to-date presentation of financial econometrics, and introduce students to appropriate techniques for empirical investigation in financial economics, asset pricing and risk management.
- **FI 415  Advanced Investments.**
  - Hours: 3
  - Advanced models for investment management are developed and their application in decision making is discussed. Emphasis is on the use of models for portfolio selection.
  - Prerequisites: FI 302 and FI 414

- **FI 419 Financial Derivatives.**
  - Hours: 3
  - Addresses managing financial risks such as adverse stock price movements, adverse interest rate changes and adverse commodity price changes with specific attention given to employing futures, options and swap contracts.
  - Prerequisites: FI 302 and FI 414

- **ST 454 Mathematical Statistics I.** *(Alternative: MATH 451 Math Stats W/ Applictn I)*
  - Hours: 3
  - Distributions of random variables, moments of random variables, probability distributions, joint distributions, and change of variable techniques.
  - Prerequisites: MATH 227

- **ST 455 Mathematical Statistics II.** *(Alternative: MATH 452 Math Stats W/ Applictn II)*
  - Hours: 3
  - Theory of order statistics, point estimation, interval estimation, and hypothesis testing.
  - Prerequisites: ST 454
Proposal for a Minor in Actuarial Science
at the
Department of Economics, Finance and Legal Studies
Culverhouse College of Business
University of Alabama

August 13, 2018

This proposal is for a new minor in Actuarial Science.

Features of a Minor

- 15-21 hours of course credit
- Outside of Major: no overlap in Major and Minor courses
- Required Approvals: Department Faculty, FEB, Faculty, Dean, Provost.

Rationale for the new Minor

The Actuarial Science program plans to increase its enrollment and graduation rates. Changing the offering from a concentration to a minor will make the program available the University’s students, beyond the Culverhouse College of Business.

Courses

<table>
<thead>
<tr>
<th>Foundational Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 110 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EC 111 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 227 Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>ST 454 Mathematical Statistics I or MATH 355 Theory of Probability(^1)</td>
<td>3</td>
</tr>
<tr>
<td>ST 455 Mathematical Statistics I or MATH 451 Math Stats W/Applictn I(^1)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 15

<table>
<thead>
<tr>
<th>Required Courses for the Minor</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FI 341 Principles of Risk Management and Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FI 427 Probability for Actuaries</td>
<td>3</td>
</tr>
<tr>
<td>FI 428 Financial mathematics for Actuaries</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 9

Choose two of the following electives (6 hours total):

EC 413 Economic Forecasting and Analysis (3 hours)
FI 302 Business Finance (3 hours)

\(^1\) Alternative for non-business majors.
FI 410 Intermediate Financial Management (3 hours)
FI 415 Advanced Investments (3 hours)
FI 419 Financial Derivatives (3 hours)
FI 443 Property & Liability Insurance (3 hours)
FI 444 Life & Health Insurance (3 hours)
FI 472 Financial Econometrics (3 hours)
ST 440 Statistical Programming and Computing with R (3 hours)
ST 452 Applied Regression Analysis (3 hours)

Total for the Minor: 15

Courses list

- **EC 413 Economic Forecasting & Analysis.**
  - Hours: 3
  - Survey of the analytical techniques used by economists to forecast the macro and micro levels of economic activity and the effects of public policy on the economy. Computing proficiency is required for a passing grade in this course.
  - Prerequisites: EC 308 and EC 309

- **FI 302 Business Finance.**
  - Hours: 3
  - Study of financial objectives of business enterprise, sources of capital, and financial management of business assets. Emphasis is on establishing a framework for making financing, investing, and dividend decisions.
  - Prerequisites: EC 110/111, LGS 200, AC 210, ST 260

- **FI 341 Principles of Risk Management and Insurance.**
  - Hours: 3
  - This course introduces students to the principles of risk management and provides practical knowledge that will help optimize results from the risk management process. Students learn about different kinds of insurance and develop a basic understanding of functional operations in insurance companies. The course also helps students become more effective consumers of financial services, and provides valuable knowledge for those interested in a possible career in the financial services industry.
  - Prerequisites: E 110 and EC 111

- **FI 410 Intermediate Financial Management.**
  - Hours: 3
  - Development of advanced practices of financial management and their application to decision making in the business firm.
  - Prerequisites: EC 110/111, FI 302

- **FI 415 Advanced Investments.**
  - Hours: 3
Advanced models for investment management are developed and their application in decision making is discussed. Emphasis is on the use of models for portfolio selection.

Prerequisites: FI 302 and FI 414

**FI 419 Financial Derivatives.**
- Hours: 3
- Addresses managing financial risks such as adverse stock price movements, adverse interest rate changes and adverse commodity price changes with specific attention given to employing futures, options and swap contracts.
- Prerequisites: FI 302 and FI 414

**FI 427 Probability for Actuaries.**
- Hours: 3
- The purpose of this course is to assist the student in preparation for Exam P, a three-hour exam consisting of 30 multiple choice questions, administered by the Society of Actuaries. We will introduce the basic concepts covered under Exam P and emphasize the working of problems.
- Prerequisites: ST 454

**FI 428 Financial Mathematics for Actuaries.**
- Hours: 3
- The topics include fundamental concepts of financial mathematics, including measurement of interest, accumulation and discount, forces of interest and discount, and calculating present and accumulated values for various streams of cash flows (annuities, perpetuities, amortization and sinking funds, yield rates, bonds and other securities). A key objective is to prepare students for the corresponding exams offered by actuarial associations.
- Prerequisites: MATH 126

**FI 443 Property & Liability Insurance.**
- Hours: 3
- This course introduces students to commercial P-L coverages as well as to the principles of company operations, regulation, and accounting. Based primarily on the CPCU textbook, Insurance Operations, supplemented by other writings, guest speakers, and field trips, this course provides a broad-based exposure to property and liability insurance at the intermediate level. Students receive credit for CPCU 520, which is a major career-builder.
- Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366

**FI 444 Life & Health Insurance.**
- Hours: 3
- Among the major topics covered in this advanced course are: contracts, underwriting, ratemaking (including calculation of net and gross premiums, reserves, surrender values, dividends, asset share modeling), claims, agency law, marketing (including elements of financial planning), strategic planning, and regulation. Students are prepared to take LOMA or American College examinations.
- **FI 472 Financial Econometrics.**
  - Hours: 3
  - Description: This course is intended to provide a modern and up-to-date presentation of financial econometrics, and introduce students to appropriate techniques for empirical investigation in financial economics, asset pricing and risk management.
  - Prerequisite(s): (Undergraduate level MATH 121 Minimum Grade of C- or Undergraduate level MATH 125 Minimum Grade of C- or Undergraduate level MATH 145 Minimum Grade of C-) and (Undergraduate level ST 260 Minimum Grade of C- or (Undergraduate level ST 250 Minimum Grade of C- and Undergraduate level ST 251 Minimum Grade of C-)) and Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **ST 440 Statistical Programming and Computing with R.**
  - Hours: 3
  - Introduction to basic concepts in computer programming and statistical computing techniques as they are applied to data extraction and manipulation, statistical processing, and visualization. Uses the R language.
  - Prerequisites: ST 260 or GES 255, (CS 150 or UA Computer Science Placement Test Score of 380)

- **ST 452 Applied Regression Analysis.**
  - Hours: 3
  - This course introduces modern methods of regression based data analysis. Topics include: a) models and methods of inference for simple and multiple regression; b) diagnostics, multicollinearity, influence, outliers, transformations, model selection, and dimension reduction; c) time series modeling, trends, random walks, autoregressive, exponential smoothing d) generalized linear models, binary and Poisson regression, hypothesis tests, confidence and prediction intervals.
  - Prerequisites: ST 260 or GES 255, ST 455, MATH 237 (Linear Algebra)

- **ST 454 Mathematical Statistics I.** (Alternative for non-business majors: MATH 355)
  - Hours: 3
  - Distributions of random variables, moments of random variables, probability distributions, joint distributions, and change of variable techniques.
  - Prerequisites: MATH 227

- **ST 455 Mathematical Statistics II.** (Alternative for non-business majors: MATH 451)
  - Hours: 3
  - Theory of order statistics, point estimation, interval estimation, and hypothesis testing.
  - Prerequisites: ST 454
ISM related items for the next FEB meeting

2 messages

John Mittenthal <jmittent@cba.ua.edu>  
Mon, Aug 13, 2018 at 3:49 PM

To: "Schnee, Ed" <eschnee@cba.ua.edu>, Jonathon Halbesleben <jhalbesleben@cba.ua.edu>
Cc: Kati Hardemon <kfhardemon@cba.ua.edu>, Sharif Melouk <smelouk@cba.ua.edu>, Uzma Raja <uraja@cba.ua.edu>

Ed:

the OM faculty have reviewed the OM major and request FEB approval of the following four (4) items:

1. Change prerequisite of OM 310: from “OM 300 and OM 385 or OM 305” to “OM 300 and OM 305” Reasons: OM 385 was renumbered to OM 305, and OM students that have taken OM 385 have graduated.

2. Change prerequisite of OM 420: from “ST 260 and OM 385 or OM 305” to “OM 305 and OM 310” Reasons: OM 385 was renumbered to OM 305, and OM students that have taken OM 385 have graduated; and OM 420 has been redesigned so that half of the content is spreadsheet based and so OM 310 is a better prerequisite choice as it provides additional proficiency with EXCEL. Further, the adoption of item (3) below would ensure that ST 260 had been previously completed since ST 260 is a prerequisite of OM 375 (an OM major course).

3. Change prerequisite of OM 422: from “OM 321” to “OM 310” Reason: OM 310 provides the EXCEL preparation and introduction to optimization concepts that are desired for OM 422.

4. Prospective OM major students must officially declare OM as their major prior to enrolling in any 400-level OM major course (specifically, OM 420, OM 422, and OM 423) Reason: If a student is having GPA issues that prevent them from declaring OM as his/her major, then it would be better for the student not to attempt the 400-level courses in the major. In addition, such a student should probably switch to General Business and still graduate within a semester or two.
Precedent: The MIS major has a similar requirement.

Also, the MIS faculty are proposing a new course which has been offered as MIS 497 in the past. Please see the attached document.

Regards,

John

John Mittenthal, PhD
Professor, Department Head
University Chair in Manufacturing Management
Information Systems, Statistics, and Management Science

https://culverhouse.ua.edu/academics/departments/information-systems-statistics-and-management-science

The University of Alabama
304 Alston Hall, Tuscaloosa, AL 35487
office 205-348-6087
jmittent@cba.ua.edu
John,

I'm going to ask Kati NOT to include item #5 for consideration by FEB. That's not something that should be taken up by FEB without far more careful consideration of the implications of such a change. Requiring a laptop sounds great, but presumably the laptop will have specific requirements to use the software that need to be defined, the impact this has on low-income students needs to be determined and plan developed, technical support plans need to be sorted out, etc. There may be other issues I'm not even thinking about. The point is that we can't just ask FEB to approve that kind of requirement without far more examination of the impact.

Jonathon

Jonathon Halbesleben, PhD
Senior Associate Dean
Russell Professor of Business Administration
Culverhouse College of Business
The University of Alabama
Box 870223
Tuscaloosa, AL 35487
Phone 205-348-2702
jhalbesleben@culverhouse.ua.edu
PROPOSAL TO OFFER A NEW COURSE

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION
THE UNIVERSITY OF ALABAMA

Department: Information Systems, Statistics, and Management Science
Course Number: MIS420
Course Title: Enterprise Application Development
Effective Date: 1/1/2019

Date: 4/4/2018

PART ONE
(To be completed by the individual proposing the course.)

I. GENERAL INFORMATION

A. Description (25 words or less):

The study and application of advanced software engineering, application patterns, and file structures. Students design, construct, and test software structures for effective information management.

B. 1. Prerequisite(s): ___ CS 250 or MIS 320, MIS 330

2. Corequisite(s):

3. Other: ___Upper Division Undergraduate
   (Lower Division Undergraduate, Upper Division Undergraduate, Graduate I or Graduate II)

C. Course Level:

D. Format: 3 Hours of lecture per week

   _____ Hours of discussion (recitation per week)

   _____ Hours of laboratory (or field work) per week

   Other instructional methods and modes:

   _________________________________

   _________________________________

E. Credit Hours: 3
II. ACADEMIC INFORMATION

A. Course Objectives:

The course will present the foundations of modern enterprise web application development, including HTML5, CSS3, and JavaScript. The course will dive deep into .NET MVC (Model, View, Controller) and will provide the foundations to build a multi-tier MVC application.

The course will cover many other advanced topics that are relevant to production software development. Topics may include software deployment, server optimization, decentralized processing architectures such as Blockchain/Bitcoin, text mining, IoT (Internet of Things) and other topics that are currently applicable towards top-tier development.

B. What course or courses, if any, will this course replace? Implementation of this course, if it does not replace an existing course, may cause enrollment reductions in other courses. Please list all courses in which such enrollment declines may be expected.

This course is currently offered under a generic 497 classification. The new course would replace the 497 offering.

C. What is the justification for proposing the course at this time?

This course will have been offered 3 times before the requested effective date and the content is formalized to the point where it warrants a migration from a generic 497 to its own course number.

D. Name the current faculty who are qualified to teach this course. What specific qualifications and capabilities must an individual have in order to teach this course?

Dr. Matthew Hudnall
Dr. Rishikesh Jena

E. This course is designed for the following curricula (programs):

Management Information Systems (MIS)

F. This course will be required for the following majors and minors:

This course would be an elective and not a required course.

G. Attach an outline of the course of at least one page in length and name any textbooks or principal readings that will be used. (This request is not intended to bind future instructors to a detailed program, but only to establish the general scope, nature and level of the course.)
Please see Appendix 1
PART TWO

(To be completed by the department head, alone or in consultation with the proposer.)

I. BUDGETARY INFORMATION

A. Anticipated frequency of offering:

   _1__ section(s) each fall semester       _1__ section(s) each spring semester
   _____ section(s) during summer school    _____ according to demand

B. Estimated total enrollment:

   First Year:   _____35_____

   Second Year:  _____35_____  

   Third Year:   _____35_____  

C. Estimated capacity per section:

   Lecture:      _____40_____

   Discussion:              

   Laboratory:              

D. How does this course impact on the mission of the College and department?

The mission of Culverhouse College of Business includes "innovative research" and "rigorous learning" and the ISM department is focused on producing MIS students that can be competitive "in today's information-based society". This course will teach students cutting-edge software development techniques that will make them competitive for industry positions and the rigorous course content will give them the toolsets needed to produce innovative research.

E. What resources will be needed to teach this course and where will they come from?

Existing MIS faculty are well equipped to teach this course. Facilities wise, all current classrooms equipped with a projector that can house 40 students are sufficient to handle this course. All software and texts used for this course are free and openly available.

F. Is there agreement within the department that the course is needed and that resources will be available to teach this course?

Yes, the MIS faculty have agreed that this course is needed and the resources are available to teach the course.
G. Is there any indication that this course duplicates course work offered elsewhere in the College or University?

This course does not duplicate any other course in the College. At the University level, there is an advanced programming course offered by Computer Science (CS 350), but the content differs significantly. The programming language used by the CS class is Java where this proposed course is in .NET and the foundational aspects of HTML, CSS, and jQuery taught in this proposed course are not available in the CS offering.
II. EVALUATION

Describe the system of evaluation that will be used to determine whether this course should be continued in the departmental program. (It would be helpful to relate this system of evaluation to the kinds of information, requested in PART ONE, Section II-Academic Information and PART TWO, Section I-Budgetary Information).

MIS 420 will be a third programming course in the MIS major for students that choose this elective. The skills gained by the students ensure their placement upon graduation. We will continue to offer this course subject to adequate enrollment (at least 20 students) and faculty support of this elective.

Proposed by: __________________________ Name __________________________ Date

Approved by: __________________________ Name __________________________ Date

Department Head/Director

Dean __________________________ Date

Conditions of approval, if any:

Upon final approval, a course inventory form must be completed and forwarded to the Office for Academic Affairs.
Appendix 1 – Course Outline

Prerequisites

UA Course Catalog Prerequisites:

CS 250 or MIS 320, MIS 330

Course Description

Course Description and Credit Hours
Special topics in MIS.
The study and application of software engineering, application patterns, and file structures. Students design, construct and test software structures for effective information management.

Required Texts

There are no required texts to be purchased for this class. All reference material used in this course are available for free online.

Course Objectives

The course will present the foundations of modern websites including HTML5, CSS3, and JavaScript.

The course will dive deep into .NET MVC (Model, View, Controller) and will provide the foundations to build a multi-tier MVC application.

The course will cover many other advanced topics that are relevant to production software development. Topics may include software deployment, server optimization, decentralized processing architectures such as Blockchain/Bitcoin, text mining, IoT (Internet of Things) and other topics that are currently applicable towards top-tier development.

Student Learning Outcomes

The third course in the computer programming sequence for MIS majors, MIS 497 further develops student proficiency in design and development of IT. The objective is to learn the nuances of building enterprise applications using industry wide standardized tools and frameworks. The course leads students through architecting and implementing software applications based on business requirements. The course will focus on building enterprise architecture by using contemporary enterprise architecture frameworks. For the purpose of this course, we will use .NET MVC to build and test enterprise applications. By the end of this course, students will be able to approach the process of software development systematically by applying common design patterns, frameworks,
and best practices. Students will demonstrate proficiency in understanding requirements, architecting a solution, and implementing the solution as running software.

This is not a foundational programming course (e.g., MIS 220; MIS 320)—this is a design and system architecture course. In other words, we will not be working on learning the programming structures—i.e., you already have acquired these skills from previous courses. We will focus on advancing already acquired skills by applying it to enterprise application building. The objective is to acquire advanced level IT architecture and design knowledge.

You will be doing a fair amount of research and development on the enterprise frameworks over the course of the semester. As with any kind of software development, there is a constant need to innovate and figure out optimized solutions using available material. The key to mastering application development is the willingness to learn and find creative solutions.

Other Course Materials

Students will be assigned readings from online sources (e.g., W3Schools documentations) in the public domains. All online readings (or links to readings) will be posted on the course website through Blackboard. Students are required to complete all assigned readings.

REQUIRED TOOLS

Access to a Windows or Mac laptop with the following free software installed:

Visual Studio 2017 Community Edition

Brackets Text Editor

Google Chrome Browser

Postman (standalone, not Chrome plugin)

Significant amounts of in-class coding require students to have a laptop for following along with the coding examples.

Outline of Topics

<table>
<thead>
<tr>
<th>Front end</th>
<th>HTML, CSS, Javascript, JQuery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle ware</td>
<td>Entity Framework</td>
</tr>
<tr>
<td>Data tier</td>
<td>Database (e.g., SQL Server)</td>
</tr>
</tbody>
</table>

This course will provide either a cursory or an in-depth view into the following topic areas. Additional topics may be added as the course schedule permits.

* HTML5
- CSS3
- Javascript
- JQuery
- Bootstrap
- Multi-tiered application architecture
- Entity Framework Object Relational-Mapping (ORM)
- Design patterns (e.g., MVC)
- AJAX, Scripting language framework (e.g., JQuery)
- Miscellaneous: server deployment, build tool, etc.

**SCHEDULE**

<table>
<thead>
<tr>
<th>Wk</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Orientation – Intro to course and how web works</td>
</tr>
<tr>
<td>2</td>
<td>HTML, CSS, Web basics</td>
</tr>
<tr>
<td></td>
<td>HTML, CSS, Web basics</td>
</tr>
<tr>
<td>3</td>
<td>HTML, CSS, Web basics</td>
</tr>
<tr>
<td></td>
<td>HTML, CSS, Web basics</td>
</tr>
<tr>
<td>4</td>
<td>MVC Basics</td>
</tr>
<tr>
<td></td>
<td>MVC – Working with Data</td>
</tr>
<tr>
<td>5</td>
<td>MVC – Working with Data – Entity Framework</td>
</tr>
<tr>
<td></td>
<td>MVC – Working with Data – Entity Framework</td>
</tr>
<tr>
<td>6</td>
<td>MVC – Validations – Server-side</td>
</tr>
<tr>
<td></td>
<td>MVC - Validations – Client-side With JQuery Validations</td>
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<tr>
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<td>ASP.NET Web API - RESTful Services</td>
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<td>MVC Client-side Development</td>
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<td>MVC Authentication &amp; Authorization</td>
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<td>MVC Performance Optimization</td>
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<td>MVC End-to-End Development</td>
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<td>MVC Deployment</td>
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<td>Team Project</td>
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<td>Team Project</td>
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**Exams and Assignments**

To aid in your learning there will be a number of small projects—many of them small program segments focused to reinforce learning and gain insights. Several computer projects will be turned in for grading. Some projects will be considerably more extensive and expansive than others. **All projects must compile and execute without errors. All code should be accompanied by comments. Points will be deducted for programs that do not compile or execute.** Assignments are due by midnight on the due date. These assignments should be turned in through Blackboard.
Grading Policy

Grading

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<tr>
<td>Team Project</td>
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<tr>
<td>Assignments (Individual and Team)</td>
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<tr>
<td>Class Participation (in class, attendance, etc.)</td>
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<td><strong>TOTAL</strong></td>
<td><strong>100</strong></td>
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Grades will be assigned based on the existing University of Alabama Scale. The total points over the semester will be scaled to 100% - e.g., if you earned 150 out of 200 points, then scaled score would be 75%. In essence, you earned 75% of the total points given as assignment.

Class participation – e.g., based on class attendance, in class assignment, submission of tutorials, etc.

GRADE APPEALS

All grade appeals are to be made in writing (email is okay) within 48 hours of posting grades. You should include your name, the specific item you are appealing, your original response and an explanation why that item should be re-scored (e.g. text page number and quote). This process is designed to document the process and ensure grade equity across the class.

Policy on Missed Exams and Coursework

Students are responsible for any changes made to examination dates or assignments announced in class or posted through Blackboard. If in doubt, contact the instructor/Class Mentors to confirm any changes to the official schedule.

All assignments and projects are mandatory and must be submitted on time.

- Unless otherwise stated by the instructor, assignments must be submitted by the beginning of class on the assignment due date.

- No lab assignment, program, or exam can be skipped, if any of these are missed, you will receive a failing grade.

- We will discuss in class how to make the decision on whether to submit an incomplete assignment, or submit a correct assignment late.
- Late assignments will be penalized with significant grade deduction,

- Students are allowed two “free” days during the semester for late assignments. These days can be used at the student’s digression. More detail on this policy will be provided in class.

- Likewise assignments that are incorrect will be penalized with significant deduction in grade.

- Back up your work periodically and check submitted assignments to ensure they were submitted correctly. Computer viruses, blank/failed submissions, etc. do not excuse you from this deadline.

Make-up quizzes and exams are allowed only in extreme cases. If you know that you will miss a class, quiz or exam, you MUST notify the instructor in advance to determine if a make-up can be offered. If a quiz or exam is missed due to unexpected circumstances, contact the instructor as soon as possible to determine if a makeup can be offered. Failure to turn in or complete any assignment, project, quiz, or exam will result in a grade of zero for that item.

**Attendance Policy**

Class participation is a significant part of the grading structure for this class. As such, attendance is needed to attain that portion of the grade for this class.

**Notification of Changes**

The instructor will make every effort to follow the guidelines of this syllabus as listed; however, the instructor reserves the right to amend this document as the need arises. In such instances, the instructor will notify students in class and/or via email and will endeavor to provide reasonable time for students to adjust to any changes.

**Statement on Academic Misconduct**

Students are expected to be familiar with and adhere to the official Code of Academic Conduct provided in the Online Catalog.

**Statement On Disability Accommodations**

Contact the Office of Disability Services (ODS) as detailed in the Online Catalog.

**Severe Weather Protocol**

Please see the latest Severe Weather Guidelines in the Online Catalog.

**Pregnant Student Accommodations**
Title IX protects against discrimination related to pregnancy or parental status. If you are pregnant and will need accommodations for this class, please review the University’s FAQs on the UAct website.

**Religious Observances**

Under the Guidelines for Religious Holiday Observances, students should notify the instructor in writing or via email during the first two weeks of the semester of their intention to be absent from class for religious observance. The instructor will work to provide reasonable opportunity to complete academic responsibilities as long as that does not interfere with the academic integrity of the course. See full guidelines at Religious Holiday Observances Guidelines.

**UAct Statement**

The UAct website provides an overview of The University's expectations regarding respect and civility.
PROPOSAL TO OFFER A NEW COURSE

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION
THE UNIVERSITY OF ALABAMA

Department: ISM
Course Number: MIS 515
Effective Date: August 1, 2018
Date: 2/12/2018
Course Title: Intro to Application Development

PART ONE

(To be completed by the individual proposing the course.)

I. GENERAL INFORMATION

A. Description (25 words or less):

This bridge course intends to introduce students into the basics of application development using Python programming language

B. 1. Prerequisite(s): None

2. Corequisite(s): None

3. Other: __________________________

C. Course Level: Graduate I
   (Lower Division Undergraduate, Upper Division Undergraduate, Graduate I or Graduate II)

D. Format: 3 Hours of lecture per week

   ______ Hours of discussion (recitation per week)

   ______ Hours of laboratory (or field work) per week

   Other instructional methods and modes: __________________________

   __________________________

E. Credit Hours: 3
II. ACADEMIC INFORMATION

A. Course Objectives:

Students will gain a fundamental understanding of contemporary application development using Python as the programming language. Students will gain proficiency in creating functional Python scripts to build variety of applications in the area of system development. Python provides a simple and versatile development environment suitable for projects ranging from simple scripting applications to large-scale enterprise applications. In addition to core programming fundamentals, the course will also incorporate system development best practices such as team collaboration, version management, documentations, unit testing, styles and standards. In the process, students will explore the multitude of standard libraries available in the python development ecosystem to accomplish various problem-solving tasks.

Learning Objectives:

Upon successful completion of this course, students will be able to:
1. Design application using object oriented concepts
2. Identify and define the scope of a problem
3. Design and create python executable scripts to solve the problem
4. Develop basic unit tests

B. What course or courses, if any, will this course replace? Implementation of this course, if it does not replace an existing course, may cause enrollment reductions in other courses. Please list all courses in which such enrollment declines may be expected.

This is a new course.

C. What is the justification for proposing the course at this time?

This course is a part of the two-course bridge program for the proposed MS MIS program. The course will be offered over the summer months, along with MIS 520, to help orient students without undergraduate degrees in MIS, CS, or similar programs.

In addition, this course will also be used to support the (proposed) MS in Business Analytics degree program.

D. Name the current faculty who are qualified to teach this course. What specific qualifications and capabilities must an individual have in order to teach this course?

Dr. Rishi Jena, Danish Saifee (new hire starting in Fall 2018)
To teach this course, an individual must have experience in teach programming oriented courses (e.g., Java, C#, etc.) or substantial industrial experience in application development.

E. This course is designed for the following curricula (programs):

   MS MIS curriculum, MS in Business Analytics

F. This course will be required for the following majors and minors:

   MS MIS program (as needed), MS in Business Analytics program (required)

G. Attach an outline of the course of at least one page in length and name any textbooks or principal readings that will be used. (This request is not intended to bind future instructors to a detailed program, but only to establish the general scope, nature and level of the course.)
MIS 515 Intro to Application Development

Course Description

This bridge course intends to introduce students into the basics of application development using Python programming language. Students will gain a fundamental understanding of contemporary application development using Python as the programming language. Students will gain proficiency in creating functional Python scripts to build variety of applications in the area of system development. Python provides a simple and versatile development environment suitable for projects ranging from simple scripting applications to large-scale enterprise applications. In addition to core programming fundamentals, the course will also incorporate system development best practices such as team collaboration, version management, documentations, unit testing, styles and standards. In the process, students will explore the multitude of standard libraries available in the Python development ecosystem to accomplish various problem-solving tasks.

Course Prerequisites and co-requisites

None

Learning Objectives:
Upon successful completion of this course, students will be able to:
1. Design application using object oriented concepts
2. Identify and define the scope of a problem
3. Design and create python executable scripts to solve the problem
4. Develop basic unit tests

Required Texts

Learning Python by Mark Lutz (5th Edition), O'Reilly Publications

Note: The terms “design,” and “develop” describe a few of the higher order learning objectives used in this course. These objectives generally require the students to engage in more rigorous learning activities and assessment criteria relative to lower order learning objectives typically associated with undergraduate level courses. For example, to ensure that students completing this course are able to “design and create python executable scripts to solve the problem,” the students will be required to prepare and submit python scripts that address a given problem, assessed according to an appropriate rubric.
PART TWO

(To be completed by the department head, alone or in consultation with the proposer.)

I. BUDGETARY INFORMATION

A. Anticipated frequency of offering:

____ section(s) each fall semester  ____ section(s) each spring semester

__1__ section(s) during summer school  ____ according to demand

B. Estimated total enrollment:

   First Year:  _____30_____

   Second Year: _____35_____  

   Third Year  _____40_____  

C. Estimated capacity per section:

   Lecture:  _____80_____

   Discussion  ______________

   Laboratory  _____40_____  

D. How does this course impact on the mission of the College and department?  
This course allows a non-MIS student starting the MS MIS program to “catch-up”  
his/her programming skills, and so enables the student to participate fully in the  
program which has a current focus on cyber-security issues. The course also ensures  
that students in the MS in Bus. Analytics program have desired programming skills.

E. What resources will be needed to teach this course and where will they come  
from?  
No additional resources are required.

F. Is there agreement within the department that the course is needed and that  
resources will be available to teach this course?  Yes

G. Is there any indication that this course duplicates course work offered elsewhere  
in the College or University?  No
II. EVALUATION

Describe the system of evaluation that will be used to determine whether this course should be continued in the departmental program. (It would be helpful to relate this system of evaluation to the kinds of information, requested in PART ONE, Section II-Academic Information and PART TWO, Section I-Budgetary Information).

Course enrollment will be tracked to determine whether or not the course should be continued in the programs which it is designed to serve. Also, since MIS is a quickly evolving area, the MIS faculty may recommend that the course be discontinued.

Proposed by: _________________________  02/25/18
Name
Date

Approved by: _________________________  07/23/2018
Department Head/Director
Date

Dean
Date

Conditions of approval, if any:

Upon final approval, a course inventory form must be completed and forwarded to the Office for Academic Affairs.
PROPOSAL TO OFFER A NEW COURSE

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION
THE UNIVERSITY OF ALABAMA

Department: ISM  Date: 2/11/2018
Course Number: MIS 531  Course Title: Health IT
Effective Date: August 1, 2018

PART ONE

(To be completed by the individual proposing the course.)

I. GENERAL INFORMATION

A. Description (25 words or less):

This course provides an overview of the healthcare environment and the role of HIT in enabling service delivery capabilities.

B. 1. Prerequisite(s): None

2. Corequisite(s): None

3. Other: 

C. Course Level: Graduate I
   (Lower Division Undergraduate, Upper Division Undergraduate, Graduate I or Graduate II)

D. Format: 
   3  Hours of lecture per week
   _____ Hours of discussion (recitation per week)
   _____ Hours of laboratory (or field work) per week

Other instructional methods and modes: 


E. Credit Hours: 3
II. ACADEMIC INFORMATION

A. Course Objectives:

Upon the completion of this course, students will be able to:

1. understand the healthcare and technology environment; specifically, the role of Healthcare IT
2. discuss adoption and assimilation of HIT, understanding the unique architectural constraints of HIT implementations, interoperability standards
3. discuss the analysis, design, and implementation of HIT
4. discuss issues of privacy and security in the healthcare context

B. What course or courses, if any, will this course replace? Implementation of this course, if it does not replace an existing course, may cause enrollment reductions in other courses. Please list all courses in which such enrollment declines may be expected.

This is a new course.

C. What is the justification for proposing the course at this time?

Health IT and the application of theories and techniques to the study of health IT designs and implementations are increasingly important to healthcare organizations and society.

D. Name the current faculty who are qualified to teach this course. What specific qualifications and capabilities must an individual have in order to teach this course?

Dr. Rishikesh Jena, Danish Saifee (starting in August 2018)

To teach this course, an individual must have some experience in health IT management principles and practices.

E. This course is designed for the following curricula (programs):

MS MIS curriculum

F. This course will be required for the following majors and minors:

The course will be offered as an elective in the MS MIS curriculum.

G. Attach an outline of the course of at least one page in length and name any textbooks or principal readings that will be used. (This request is not intended to bind future instructors to a detailed program, but only to establish the general scope, nature and level of the course.)
MIS 531 Health IT

Course Description

The fragmented healthcare environment is going through a profound shift in its approach to delivering better healthcare services through the implementation of healthcare IT (HIT). This course would provide an overview of the healthcare environment and the role of HIT in enabling service delivery capabilities. Specifically, this course is designed to provide students with the knowledge and skill to understand the role of HIT in creating and managing the cross-continuum systems of care. Furthermore, the course will prepare students with the knowledge and skills essential to managing HIT and its assimilation in the complex domain of healthcare.

Course Prerequisites and co-requisites
None

Learning Objectives:
1. Understand the healthcare and technology environment; specifically, the role of Healthcare IT
2. Discuss adoption and assimilation of HIT, understanding the unique architectural constraints of HIT implementations, interoperability standards
3. Describe the analysis, design, and implementation of HIT
4. Analyze issues of privacy and security in the healthcare context

Required Texts


Note: The terms "describe," and "analyze" describe a few of the higher order learning objectives used in this course. These objectives generally require the students to engage in more rigorous learning activities and assessment criteria relative to lower order learning objectives typically associated with undergraduate level courses. For example, to ensure that students completing this course are able to "Analyze issues of privacy and security in the healthcare context," the students will be required to prepare and present both a written and oral presentation of the issues and concerns of privacy and security in healthcare, assessed according to an appropriate rubric.
PART TWO

(To be completed by the department head, alone or in consultation with the proposer.)

I. BUDGETARY INFORMATION

A. Anticipated frequency of offering:

   _____ section(s) each fall semester  _____ section(s) each spring semester
   _____ section(s) during summer school  ____1____ according to demand

B. Estimated total enrollment:

   First Year:  ____10____
   Second Year:  ____10____
   Third Year  ____10____

C. Estimated capacity per section:

   Lecture:  ____40____
   Discussion  ____________
   Laboratory  ____________

D. How does this course impact on the mission of the College and department?
   This course is an elective for the MS MIS program and addresses information technology in healthcare. As such, this topic is related to one of the focus research areas of the University and is a focus area of some of the MIS faculty.

E. What resources will be needed to teach this course and where will they come from?
   No additional resources are required.

F. Is there agreement within the department that the course is needed and that resources will be available to teach this course?  Yes

G. Is there any indication that this course duplicates course work offered elsewhere in the College or University?  No
II. EVALUATION

Describe the system of evaluation that will be used to determine whether this course should be continued in the departmental program. (It would be helpful to relate this system of evaluation to the kinds of information, requested in PART ONE, Section II-Academic Information and PART TWO, Section I-Budgetary Information).

Course enrollment will be tracked to determine whether or not the course should be continued in the programs which it is designed to serve. Also, since MIS is a quickly evolving area, the MIS faculty may recommend that the course be discontinued.

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<th>Proposed by:</th>
<th>02/25/18</th>
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<tbody>
<tr>
<td>Allen Johnston</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Date</td>
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<td>John Meister</td>
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<tr>
<td>Department Head/Director</td>
<td>Date</td>
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Dean                     Date

Conditions of approval, if any:

Upon final approval, a course inventory form must be completed and forwarded to the Office for Academic Affairs.
PROPOSAL TO OFFER A NEW COURSE

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION
THE UNIVERSITY OF ALABAMA

Department: ISM  Date: 2/11/2018
Course Number: MIS 561  Course Title: Applied Cyber Security
Effective Date: August 1, 2018

PART ONE
(To be completed by the individual proposing the course.)

I. GENERAL INFORMATION

A. Description (25 words or less):

This course examines management issues and practical implications related to securing information systems.

B. 1. Prerequisite(s): None

2. Corequisite(s): None

3. Other:

C. Course Level: Graduate I
   (Lower Division Undergraduate, Upper Division Undergraduate, Graduate I or Graduate II)

D. Format: 3  Hours of lecture per week

   _____ Hours of discussion (recitation per week)

   _____ Hours of laboratory (or field work) per week

   Other instructional methods and modes:

E. Credit Hours: 3
II. ACADEMIC INFORMATION

A. Course Objectives:

Upon the completion of this course, students will be able to:

1. Understand the core concepts of networking and TCP/IP.
2. Explain orally and in writing key security concepts related to IT security so that a lay person in the IT field could easily understand.
3. Use IT Security jargon and acronyms correctly and can translate technical articles into plain English.
4. Examine and understand current security related issues by selecting and understanding relevant articles in selected current periodicals.
5. Make intelligent, reasonable, thoughtful, and accurate decisions about IT security, vulnerabilities, and legal issues.
6. Apply a small number of contemporary security software to protect and assess information systems and network infrastructure and obtain a high-level understanding of a larger number of security tools.

B. What course or courses, if any, will this course replace? Implementation of this course, if it does not replace an existing course, may cause enrollment reductions in other courses. Please list all courses in which such enrollment declines may be expected.

This is a new course.

C. What is the justification for proposing the course at this time?

Information security and the application of theories and techniques to security threat mitigation and prevention and increasingly important to organizations.

D. Name the current faculty who are qualified to teach this course. What specific qualifications and capabilities must an individual have in order to teach this course?

Dr. Greg Bott and Dr. Allen Johnston

To teach this course, an individual must have some experience in applied information security techniques and practices.

E. This course is designed for the following curricula (programs):

MIS MS curriculum, MBA-MIS concentration

F. This course will be required for the following majors and minors:

The course will be required for the MBA-MIS concentration, and an elective for the MIS MS program.
G. Attach an outline of the course of at least one page in length and name any textbooks or principal readings that will be used. (This request is not intended to bind future instructors to a detailed program, but only to establish the general scope, nature and level of the course.)

PART TWO

(To be completed by the department head, alone or in consultation with the proposer.)

I. BUDGETARY INFORMATION

A. Anticipated frequency of offering:

   _1_ section(s) each fall semester  _   section(s) each spring semester
   _   section(s) during summer school  _ according to demand

B. Estimated total enrollment:

   First Year:   _20_
   Second Year: _25_
   Third Year:  _30_

C. Estimated capacity per section:

   Lecture: _80_
   Discussion
   Laboratory _40_

D. How does this course impact on the mission of the College and department? This course addresses informational security. This topic is related to cybersecurity and is a focus area of some of the MIS faculty as well as a research focus for the University.

E. What resources will be needed to teach this course and where will they come from?

   No additional resources are required.

F. Is there agreement within the department that the course is needed and that resources will be available to teach this course? Yes

G. Is there any indication that this course duplicates course work offered elsewhere in the College or University? No
II. EVALUATION

Describe the system of evaluation that will be used to determine whether this course should be continued in the departmental program. (It would be helpful to relate this system of evaluation to the kinds of information, requested in PART ONE, Section II-Academic Information and PART TWO, Section I-Budgetary Information).

Course enrollment will be tracked to determine whether or not the course should be continued in the programs which it is designed to serve. Also, since MIS is a quickly evolving area, the MIS faculty may recommend that the course be discontinued.

Proposed by: ___________________________ 02/25/18
Name

Approved by: ___________________________ 2/23/2018
Department Head/Director

Conditions of approval, if any:

Upon final approval, a course inventory form must be completed and forwarded to the Office for Academic Affairs.
MIS 561 Applied Cyber Security

Course Description

This course examines management issues and practical implications related to securing information systems. This course focuses on the Threat Environment, security Policy and Planning, Cryptography, Secure Networks, Access Control, Firewalls, Host Hardening, Application Security, Data Protection, Incident Response, and Networking and Review of TCP/IP. A clear theoretical understanding supports a large practical component where students learn to use contemporary security software to secure and assess information systems and network infrastructure using a hands-on approach.

Course Prerequisites and Co-Requisites
None

Learning Objectives

Upon the completion of this course, the student will be able to:

1. Understand the core concepts of networking and TCP/IP.
2. Explain orally and in writing key security concepts related to IT security so that a lay person in the IT field could easily understand.
3. Use IT Security jargon and acronyms correctly and can translate technical articles into plain English.
4. Examine and understand current security related issues by selecting and understanding relevant articles in selected current periodicals.
5. Make intelligent, reasonable, thoughtful, and accurate decisions about IT security, vulnerabilities, and legal issues.
6. Apply a small number of contemporary security software to protect and assess information systems and network infrastructure and obtain a high-level understanding of a larger number of security tools.

Required Texts or Materials


Note: The terms “explain,” “use,” “examine,” and “apply” describe a few of the higher order learning objectives used in this course. These objectives generally require the students to engage in more rigorous learning activities and assessment criteria relative to lower order learning objectives typically associated with undergraduate level courses. For example, to ensure that students completing this course are able to “explain orally and in writing key security concepts related to IT security so that a lay person in the IT field could easily understand,” the students will be required to prepare and present both written and oral
presentations of key security concepts at various points throughout the semester, assessed according to an appropriate rubric.
PROPOSAL TO OFFER A NEW COURSE

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION
THE UNIVERSITY OF ALABAMA

Department: ISM                                      Date: 2/11/2018
Course Number: 563                                   Course Title: Behavioral Information Security
Effective Date: August 1, 2018

PART ONE
(To be completed by the individual proposing the course.)

I. GENERAL INFORMATION

A. Description (25 words or less):

This course focuses on the human element of information security, exploring employee perceptions of threats and effective approaches for motivating compliance with organizational security requirements.

B. 1. Prerequisite(s): None

2. Corequisite(s): None

3. Other: __________________________________________

C. Course Level: Graduate I
   (Lower Division Undergraduate, Upper Division Undergraduate, Graduate I or Graduate II)

D. Format: 3 Hours of lecture per week

   ______ Hours of discussion (recitation per week)

   ______ Hours of laboratory (or field work) per week

   Other instructional methods and modes: ____________________________

   ____________________________

   ____________________________

E. Credit Hours: 3
II. ACADEMIC INFORMATION

A. Course Objectives:

Upon the completion of this course, students will be able to:

1. discuss key information security concepts
2. evaluate how people, technology and organizational policies interact to safeguard an organization’s information resources
3. describe the danger of humans as insider threats to organizational security
4. apply social and psychological theories and principles to analyze how employees consider risk and the actions required to mitigate or avoid it
5. analyze policies and procedures for achieving high degrees of compliance among employees

B. What course or courses, if any, will this course replace? Implementation of this course, if it does not replace an existing course, may cause enrollment reductions in other courses. Please list all courses in which such enrollment declines may be expected.

This is a new course.

C. What is the justification for proposing the course at this time?

Information security is a managerial problem, and as such, students must understand the implications for managing the human element of an organization’s efforts to secure its valuable resources. To date, that understanding has not been reflected in the MIS or MBA-MIS curricula. Further, as the University and Culverhouse College of Commerce continue to grow their commitment and capacity for research and education in cyber security, it is critical that the behavioral element of cyber security is attended to in those efforts.

D. Name the current faculty who are qualified to teach this course. What specific qualifications and capabilities must an individual have in order to teach this course?

Dr. Allen Johnston, Dr. Greg Bott

To teach this course, an individual must have some experience in information security management and have conducted research in behavioral information security.

E. This course is designed for the following curricula (programs):

MS MIS curriculum, MBA-MIS concentration

F. This course will be required for the following majors and minors:

The course will be required for the MBA-MIS concentration, and an elective for the MS MIS program
G. Attach an outline of the course of at least one page in length and name any textbooks or principal readings that will be used. (This request is not intended to bind future instructors to a detailed program, but only to establish the general scope, nature and level of the course.)

PART TWO

(To be completed by the department head, alone or in consultation with the proposer.)

I. BUDGETARY INFORMATION

A. Anticipated frequency of offering:

   ___1___ section(s) each fall semester    ___ section(s) each spring semester
   ___ section(s) during summer school    ___ according to demand

B. Estimated total enrollment:

   First Year: ___20___
   Second Year: ___25___
   Third Year: ___30___

C. Estimated capacity per section:

   Lecture: ___80___
   Discussion:             
   Laboratory: ___40___

D. How does this course impact on the mission of the College and department? This course supports various graduate MIS programs and addresses informational security. This topic is related to cyber security and is a focus area of some of the MIS faculty as well as a research focus for the University.

E. What resources will be needed to teach this course and where will they come from?
   No additional resources are required.

F. Is there agreement within the department that the course is needed and that resources will be available to teach this course? Yes

G. Is there any indication that this course duplicates course work offered elsewhere in the College or University? No
II. EVALUATION

Describe the system of evaluation that will be used to determine whether this course should be continued in the departmental program. (It would be helpful to relate this system of evaluation to the kinds of information, requested in PART ONE, Section II-Academic Information and PART TWO, Section I-Budgetary Information).

Course enrollment will be tracked to determine whether or not the course should be continued in the programs which it is designed to serve. Also, since MIS is a quickly evolving area, the MIS faculty may recommend that the course be discontinued.

<table>
<thead>
<tr>
<th>Proposed by:</th>
<th>Kellen Johnston</th>
<th>02/25/18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td></td>
<td>Date</td>
</tr>
<tr>
<td>Approved by:</td>
<td>John Mikkelsen</td>
<td>02/23/18</td>
</tr>
<tr>
<td>Department Head/Director</td>
<td></td>
<td>Date</td>
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<td>Date</td>
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<tr>
<td>Conditions of approval, if any:</td>
<td></td>
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</tbody>
</table>

Upon final approval, a course inventory form must be completed and forwarded to the Office for Academic Affairs.
MIS 563 Behavioral Cyber Security

Course Description

This course provides students with a solid foundation of information security management, with an emphasis on its human element. As part of this understanding, we will explore how humans, as employees of an organization and consumers of organizational products and services, perceive threats to themselves, their digital assets, their privacy, and to their organizational affiliations. We also explore how these perceptions are operationalized in their behaviors as organizational insiders, serving to either undermine or facilitate security management practices.

Course Prerequisites and Co-Requisites

None

Learning Objectives

Upon the completion of this course, students will be able to:
1. discuss key information security concepts
2. evaluate how people, technology and organizational policies interact to safeguard an organization’s information resources
3. describe the danger of humans as insider threats to organizational security
4. apply social and psychological theories and principles to analyze how employees consider risk and the actions required to mitigate or avoid it
5. analyze policies and procedures for achieving high degrees of compliance among employees

Required Texts or Materials


In addition to the required textbook, the following HBR cases are required:

Note: The terms “evaluate,” “apply,” and “analyze,” describe a few of the higher order learning objectives used in this course. These objectives generally require the students to engage in more rigorous learning activities and assessment criteria relative to lower order learning objectives typically associated with undergraduate level courses. For example, to ensure that students completing this course are able to “analyze policies and procedures for achieving high degrees of compliance among employees,” the students will be required to utilize an appropriate set of text mining tools and report on their work, assessed according to an appropriate rubric.
To: Ed Schnee, FEB Chair

From: Tom Baker, Marketing Department PhD Program Coordinator

Date: February 5, 2018

Subject: Changing Course Title/Descriptions

Given recent hires and changes in courses offered in our PhD program we would like to have the course titles/descriptions changed. This will ensure the title/description is more in line with the content being provided in each course. Please let me know if you need any clarification or additional information.

Request 1

Change MKT 688 from current:

MKT 688 Survey of Marketing. Three hours.
Prerequisites: MKT 518.
This course surveys several marketing topics. These include some data analysis tools, such as discriminant analysis, cluster analysis, perceptual mapping, and conjoint analysis; an introduction to some substantiative topics, such as segmentation, new product diffusion, supply chain management, and attitude-to-the-ad; plus a brief overview of some selected marketing modeling topics. Offered fall semester, every other year.

Change to:

MKT 688 Quantitative Modeling in Marketing. Three hours.
Prerequisites: MKT 518.
This course covers multiple approaches to quantitative analysis of marketing data. Modeling skills are developed through analysis of actual data and examination of published applications. Analysis approaches include both dependence models, such as multiple regression and MANOVA, and interdependence models, such as factor analysis. Offered fall semester.

Request 2

Change MKT 690 from current:

MKT 690 Behavioral Theory and Methodology. Three hours. This course begins with an examination of theory and theory development. It then follows with a consideration of various methodological approaches, with a heavy focus on experimental design. Finally,
throughout, substantive behavioral and marketing topics are considered in detail, including attitudes and persuasion, advertising and branding effects, judgment and decision making, and the role of affect and emotions. Offered fall semester, every other year.

Change to:

MKT 690 Theory Development and Use. Three Hours.
This course provides an overview of the role of theory in academic research. The course begins with an introduction of philosophy of science concepts and follows with discussions of what constitutes theory and the importance and role of theory in academic research. To provide students with an appropriate background, various theories are discussed in-depth throughout the semester along with applications of those theories in the literature. Offered every fall semester.

Request 3

Change MKT 613 from current:

MKT 613 Behavioral Theory and Qualitative Methodology. Three hours. This course focuses on the use of qualitative methodology as a way to ground theory, in combination with a focus on the application of consumer psychological and behavioral topics in such contexts as services, retailing, shopping, and relationship marketing. Offered spring semester, every other year.

Change to:

MKT 613 Consumer Behavior: This course will focus on exposing PhD students to academic research related to understanding how and why people consider, choose, use, and evaluate goods and services. Offered spring semester, every other year.
Enhancing Undergraduate Student Pathways
300-Level Field Course Prerequisite Proposal

Broad Proposal Statement: Revise our College prerequisites to allow students to begin taking the five 300-level field courses in sophomore year (under current policy they can’t do so until junior year).

Link to Strategic Plan: This change was proposed as an important element of the faculty approved 2017 Culverhouse Strategic Plan as follows (Goal 1; Objective 1; Strategy 2; Action 3):

Expand opportunities to expose students to business majors [earlier]...including offer more of the core curriculum as part of the lower-division.

Impetus for Proposed Change: From key constituents (including employers and our students), we know that our undergraduate student success is being hindered/pathways blocked by blocking student access to our 300-level functional field courses until the junior year. The negative consequences for our students are shown in Table 1 and could be reduced or eliminated by the proposed prerequisite change. Note that simply changing the courses to 200-level is not a feasible solution since that would cause them to fall under a cumbersome course reciprocity system called the articulation agreement.

Table 1

<table>
<thead>
<tr>
<th>Limitations Under Current Policy</th>
<th>Negative Student Consequences of Current Policy</th>
</tr>
</thead>
</table>
| Limited exposure to major areas of business in sophomore year | • Difficulty making informed choices about majors, minors, and concentrations for the junior year  
• Difficulty getting internships between their sophomore and junior years which companies increasingly want  
• Switching majors (due to lack of earlier information) and then taking more time to graduate |
| Inability to take 300-level functional field courses until junior year | • Spend the junior year taking all of these classes which slows progress toward picking and completing a major  
• Minimal engagement of business students early on means fewer opportunities for enhanced professional, career, and academic development  
• Students forced to take all of their non-business “core” requirements (not time sensitive) in their freshman and sophomore years at the expense of business courses that are highly time sensitive  
• Critical elective credits sometimes spent on non-required courses that don’t count toward any program |
| Inability to take major classes until 2nd semester junior year | • Difficulty getting major-specific or specialty-area internships due to lack of coursework  
• Lack of time to complete minors, concentrations, certificates, and additional majors  
• Fitting “high-impact” experiential learning opportunities such as semester long coops and study abroad into the junior and senior year can be difficult or impossible |
**Specific Prerequisite Change Proposal:** Table 2 shows current and proposed prerequisites for the key courses in question (highlighted in grey). No other courses would be affected. Lower-division business courses (EC 110 and 111, LGS 200, AC 210, and AC 260) are listed for ease of reference.

<table>
<thead>
<tr>
<th>Course</th>
<th>Current Prerequisites</th>
<th>Proposed Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 110</td>
<td>Math 100 or test out</td>
<td>Math 100 or test out</td>
</tr>
<tr>
<td>EC 111</td>
<td>EC 110</td>
<td>EC 110</td>
</tr>
<tr>
<td>LGS 200</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>AC 210</td>
<td>EC 110</td>
<td>EC 110</td>
</tr>
<tr>
<td>ST 260</td>
<td>CS 102; Math 112</td>
<td>CS 102; Math 112</td>
</tr>
<tr>
<td>MGT 300</td>
<td>JR standing plus EN 101 and EN 102 and Math 121 and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260</td>
<td>SO standing plus EC 110</td>
</tr>
<tr>
<td>MKT 300</td>
<td>JR standing plus EN 101 and EN 102 and Math 121 and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260</td>
<td>SO standing plus EC 110</td>
</tr>
<tr>
<td>OM 300</td>
<td>JR standing plus EN 101 and EN 102 and Math 121 and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260</td>
<td>SO standing plus ST 260</td>
</tr>
<tr>
<td>FI 302</td>
<td>JR standing plus EN 101 and EN 102 and Math 121 and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260</td>
<td>SO standing plus AC 210</td>
</tr>
<tr>
<td>GBA 300</td>
<td>JR standing plus EN 101 and EN 102 and Math 121 and EC 110 and EC 111 and AC 210 and LGS 200 and ST 260</td>
<td>SO standing plus EN 101 and 102</td>
</tr>
</tbody>
</table>

**NOTE:** Math 112 also required as a pre-requisite for MA 121 and MA 100 as a pre-requisite for MA 112 if a student doesn’t test out.

**Benefits of the Proposed Change:** The proposed prerequisite change would reduce or eliminate the negative student consequences associated with current policy (see Table 1) and open pathways not otherwise available to our students. Detailed course maps for several programs demonstrating the benefits and pathways created by the proposed prerequisite change are available upon request.

**UA Rules Relating to this Proposed Change:** The UA registrar has been consulted and we have been told that “these are your courses and programs and rules and you are free to change them.” We have also been told there is no issue whatsoever with 300-level courses being taken by sophomores.

**Department Head Support and Resources:** We have discussed this with all of the department heads and they are in strong support of this proposed change. It is understood that this change would involve a manageable temporary short-term increase in demand for these specific courses. Reasonable options are available to handle this issue.
## Program Requirements

### Adding Majors (beyond first)
- Meet requirements of each additional major PLUS
- Each additional major beyond the first must consist of at least 12 unique credit hours

### Adding Certificates
- Minimum 15 credit hours but often large like a major
- Majors only
- Meet requirements of each certificate PLUS
- Each certificate must consist of at least 12 credit hours that are unique from each of the other certificates, concentrations, minors, or majors taken

### Adding Minors
- Minimum 15 credit hours
- Any major
- No overlap with major courses
- Meet requirements of each minor PLUS
- Each minor must consist of at least 9 credit hours that are unique from each of the other minors, concentrations, or certificates taken

### Adding Concentrations
- Minimum 9 credit hours and typically smaller like a minor
- Majors only
- No overlap with major courses
- Meet requirements of each concentration PLUS
- Each concentration must consist of at least 9 credit hours that are unique from each of the other concentrations, minors, or certificates taken
UPC Approved Minor in Economics
8-21-2018

Requirements

NOTE 1: Finance and Economics majors are not eligible to take this minor.
NOTE 2: FI majors interested in EC are, however, eligible to do the dual major in EC and FI

Eligible students must take 5 courses from the following set of options:

- **EC 308 Intermediate Microeconomics.**
  - Hours: 3
  - Description: Examination of the theory of price and the theory of resource allocation. Topics include demand theory, production and cost functions, pricing and output under competitive and noncompetitive conditions, resource markets, and rudiments of general equilibrium analysis.
  - Prerequisite(s): (Undergraduate level MATH 121 Minimum Grade of C- or Undergraduate level MATH 145 Minimum Grade of C- or Undergraduate level MATH 125 Minimum Grade of C-) and Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **EC 309 Intermediate Macroeconomics.**
  - Hours: 3
  - Description: A study of the theoretical framework underlying income, employment, and growth analysis.
  - Prerequisite(s): Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **EC 410 Law and Economics.**
  - Hours: 3
  - Description: This course will use the tools of economic analysis to analyze public policy issues and to explore the intersections between the law and economics. Writing proficiency is required for a passing grade in this course.
  - Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

- **EC 412 Industrial Organization.**
  - Hours: 3
  - Description: Study of the various types of industry structure, conduct, and performance; business strategies; and policy alternatives. Emphasizes case studies from the major types of industry.
  - Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

- **EC 413 Economic Forecasting & Analysis.**
  - Hours: 3
  - Description: Survey of the analytical techniques used by economists to forecast the macro and micro levels of economic activity and the effects of public policy on the economy. Computing proficiency is required for a passing grade in this course.
  - Prerequisite(s): (Undergraduate level ST 260 Minimum Grade of C- or (Undergraduate level ST 250 Minimum Grade of C- and Undergraduate level ST 251 Minimum Grade of C-)) and Undergraduate level EC 308 Minimum Grade of C- and Undergraduate level EC 309 Minimum Grade of C-
- **EC 416 Monetary Theory & Policy.**
  o Hours: 3
  o Description: Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.
  o Prerequisite(s): Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **EC 422 Urban Economics.**
  o Hours: 3
  o Description: Analysis of the economics of community growth and the application of economic principles in solving problems and exploiting opportunities generated by the process of urban development.
  o Prerequisite(s): Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **EC 423 Public Economics.**
  o Hours: 3
  o Description: Study of the principles of taxation, government expenditures, borrowing, and fiscal administration.
  o Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

- **EC 430 International Trade.**
  o Hours: 3
  o Description: Analysis of theoretical principles underlying international trade, with application of these principles to recent developments and to current national policies.
  o Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

- **EC 431 International Finance.**
  o Hours: 3
  o Description: Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
  o Prerequisite(s): Undergraduate level FI 301 Minimum Grade of C- or Undergraduate level EC 309 Minimum Grade of C- or Undergraduate level EC 430 Minimum Grade of C-

- **EC 442 Economic Development of Latin America**
  o Hours: 3
  o Description: A comparative analysis of economic strategies, problems, issues, and policy outcomes with special attention given to Mexico, Costa Rica, Cuba, and Brazil.
  o Prerequisite(s): Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

- **EC 444 Political Economy of Terrorism.**
  o Hours: 3
  o Description: Rational actor models applied to the study of terrorism. Empirical examination of the economic impact of terrorism and of the effectiveness of anti-terrorism policies.
  o Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-
• **EC 460 Labor Economics.**
  o Hours: 3
  o Description: This course provides an overview of labor economics. Topics covered include labor supply, labor demand, human capital, minimum wages, immigration, and discrimination.
  o Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

• **EC 470 Introduction to Mathematical Economics.**
  o Hours: 3
  o Description: Application of selected mathematical methods to the analysis of economic problems.
  o Prerequisite(s): Undergraduate level EC 309 Minimum Grade of C-

• **EC 471 Econometrics.**
  o Hours: 3
  o Description: This course emphasizes statistical methods for analyzing data used by social scientists. Topics include simple and multiple regression analyses and the various methods of detecting and correcting data problems such as autocorrelation and heteroscedasticity.
  o Prerequisite(s): (Undergraduate level MATH 121 Minimum Grade of C- or Undergraduate level MATH 125 Minimum Grade of C- or Undergraduate level MATH 145 Minimum Grade of C-) and (Undergraduate level ST 260 Minimum Grade of C- or (Undergraduate level ST 250 Minimum Grade of C- and Undergraduate level ST 251 Minimum Grade of C-)) and Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

• **EC 472 Financial Econometrics.**
  o Hours: 3
  o Description: This course is intended to provide a modern and up-to-date presentation of financial econometrics, and introduce students to appropriate techniques for empirical investigation in financial economics, asset pricing and risk management.
  o Prerequisite(s): (Undergraduate level MATH 121 Minimum Grade of C- or Undergraduate level MATH 125 Minimum Grade of C- or Undergraduate level MATH 145 Minimum Grade of C-) and (Undergraduate level ST 260 Minimum Grade of C- or (Undergraduate level ST 250 Minimum Grade of C- and Undergraduate level ST 251 Minimum Grade of C-)) and Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

• **EC 473 Games and Decisions.**
  o Hours: 3
  o Description: An introduction to game theory with emphasis on application. Game theory is a toolbox for analyzing situations where decision makers influence one another.
  o Prerequisite(s): Undergraduate level MATH 121 Minimum Grade of C- or Undergraduate level MATH 125 Minimum Grade of C- or Undergraduate level MATH 145 Minimum Grade of C-

• **EC 480 Economics of Environment.**
  o Hours: 3
  o Description: Survey of the techniques used to estimate benefits of environmental improvements, and an analysis of public policy relating to the environment and use of natural resources.
  o Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-
• **EC 482 Seminar on Economic Issues.**
  - Hours: 3
  - Description: Group discussion of current economic issues together with analysis and policy recommendations. Writing proficiency within this discipline is required for a passing grade in this course.
  - Prerequisite(s):
    - Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-

• **EC 483 Health Care Economics.**
  - Hours: 3
  - Description: An investigation of the microeconomics of the American health care delivery system. The course focuses on the demand for and supply of health care services and emphasizes the efficiency and equity characteristics of the system.
  - Prerequisite(s): Undergraduate level EC 308 Minimum Grade of C-

• **EC 497 Special Topics in Economics.**
  - Hours: 3
  - Description: N.A.
  - Prerequisite(s): Undergraduate level EC 110 Minimum Grade of C- and Undergraduate level EC 111 Minimum Grade of C-
NOTE 1: Finance and Economics majors are not eligible to take this minor.
NOTE 2: EC majors interested in FI are, however, eligible to do the dual major in EC and FI

Eligible students must take 5 courses as follows:

Required Courses – students must take the follow 4 required courses

- **FI 301 Introduction to Financial Institutions and Markets.**
  - Hours: 3
  - Overview of the financial systems in which business operates, with emphasis on financial institutions, instruments, and markets.

- **FI 410 Intermediate Financial Management.**
  - Hours: 3
  - Development of advanced practices of financial management and their application to decision making in the business firm.
  - Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366

- **FI 412 Money and Capital Markets.**
  - Hours: 3
  - An overall view of the financing process and the role of financial markets. Areas covered are characteristics of instruments traded in money and capital markets; determinants of and the relationships between different asset prices; and international aspects of financial markets.
  - Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366

- **FI 414 Investments.**
  - Hours: 3
  - Study of the various investment media together with analysis models of investment management. Emphasis is on investment decision making and portfolio analysis.
  - Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366

Elective Courses – Students must take one course from the following options:

- **FI 415. Advanced Investments.**
  - Hours: 3
  - Advanced models for investment management are developed and their application in decision making is discussed. Emphasis is on the use of models for portfolio selection.
  - Prerequisite(s): FI 302

- **FI 417. Value Investing.**
  - Hours: 3
  - This course will introduce the fundamental principles of a value-based investing approach, which will serve as a foundation for examining several critical aspects of the investing process, namely idea generation, fundamental business/industry research, financial-statement analysis and valuation.
  - Prerequisite(s): FI 302
• **FI 421. Bank Administration.**
  o Hours: 3
  o Survey of analytical methods in banking, including study of the powers of various government agencies. Emphasis is placed on managerial aspects of commercial banking.
  o Prerequisite(s): FI 301 and FI 302 or IE 203 or CE 366

• **FI 431. International Finance.**
  o Hours: 3
  o Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.
  o Prerequisite(s): FI 301 or EC 309 or EC 430

• **FI 419. Financial Derivatives.**
  o Hours: 3
  o Addresses managing financial risks such as adverse stock price movements, adverse interest rate changes and adverse commodity price changes with specific attention given to employing futures, options and swap contracts.
  o Prerequisite(s): FI 302 and FI 414
UPC Approved Minor in Risk Management/Insurance & Financial Services
8-21-2018

Requirements

Students must take 5 courses as follows:

Part I: Required Course – students must take the following course:

- **FI 341 Principles of Risk Management and Insurance.**
  - Hours: 3
  - This course introduces students to the principles of risk management and provides practical knowledge that will help optimize results from the risk management process. Students learn about different kinds of insurance and develop a basic understanding of functional operations in insurance companies. The course also helps students become more effective consumers of financial services, and provides valuable knowledge for those interested in a possible career in the financial services industry.
  - Prerequisites: E 110 and EC 111

Part II: Insurance-Related Electives – students must take at least 2 courses from the following set:

- **FI 442. Business Risk Management.**
  - Hours: 3
  - This course analyzes loss exposures facing organizations and the methods available for managing risks. Students learn about both loss control and loss financing techniques. Based primarily on the Insurance Institute of America’s Associate Risk Management textbook, *Risk Assessment*, the curriculum is supplemented by readings from other ARM textbooks and makes use of guest speakers and field trips. Students are prepared to take one or more ARM exams.
  - Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366

- **FI 443. Property & Liability Insurance.**
  - Hours: 3
  - This course introduces students to commercial P-L coverages as well as to the principles of company operations, regulation, and accounting. Based primarily on the CPCU textbook, *Insurance Operations*, supplemented by other writings, guest speakers, and field trips, this course provides a broad-based exposure to property and liability insurance at the intermediate level. Students receive credit for CPCU 520, which is a major career-builder.
  - Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366

- **FI 444. Life & Health Insurance.**
  - Hours: 3
  - Among the major topics covered in this advanced course are: contracts, underwriting, ratemaking (including calculation of net and gross premiums, reserves, surrender values, dividends, asset share modeling), claims, agency law, marketing (including elements of financial planning), strategic planning, and regulation. Students are prepared to take LOMA or American College examinations.
  - Prerequisite(s): EC 110 and EC 111 and FI 341 and FI 302 or IE 203 or CE 366
• **FI 360. Principles of Financial Planning.**
  - Hours: 3
  - To teach students about financial assets as vehicles for saving for the future. Students will also learn how to invest in a combination of assets to meet their objectives and how their objectives may change over their life span.
  - Prerequisite(s): none

• **Legal Studies 403. Administration of Estates & Trusts.**
  - Hours: 3
  - The principles and rules of law relating to wills and inheritances are covered, as well as how estates are administered, why and how trusts are created and operated, and the duties and of executors, administrators, and trustees.
  - Prerequisite(s): LGS 200

• **FI ___. Actuarial Science Exam Probability (course number to be determined)**
  - Hours: 3
  - Prepares students to pass the professional actuarial exam Probability which is required for certification by either the Casualty Actuarial Society or the Society of Actuaries.
  - Prerequisites: MATH 125, MATH 126, and MATH 227

• **FI ___. Actuarial Science Exam Financial Mathematics (course number to be determined)**
  - Hours: 3
  - Prepares students to pass the professional actuarial exam Probability which is required for certification by either the Casualty Actuarial Society or the Society of Actuaries.
  - Prerequisites: MATH 125, MATH 126, and MATH 227

**Part III – Other Electives – students can choose from the following as needed to complete minor:**

• **AC 334 Introduction to Fraud Risk Management**
  - Hours: 3
  - This course provides a basic overview of fraud risk management in business, including the global fraud problem, fraud risk identification, assessment, prevention, detection, and follow-up.
  - Prerequisites: AC 210

• **FI 414 Investments**
  - Hours: 3
  - Study of the various investment media together with analysis models of investment management. Emphasis is on investment decision making and portfolio analysis.
  - Prerequisite(s): EC 110 and EC 111 and FI 302 or IE 203 or CE 366

• **FI 436 Real Estate Financing**
  - Hours: 3
  - Study of the institutions of real estate finance and of factors affecting the flow of funds; investment analysis and procedures involved in real estate financing.
  - Prerequisite(s): FI 302 or CE 366 or IE 203
• **MGT 322 Effective Negotiations**
  - Hours 3
  - Negotiations are pervasive in all aspects of life. Having the ability to effectively negotiate can provide you with a competitive advantage in many situations. This course will employ negotiations exercises, expert guest speakers and additional readings to help students master negotiation skills.
  - Prerequisite(s): Junior class standing and enrollment in College of Commerce and Business Administration, OR by permission of instructor.

• **MKT 337 Personal Selling**
  - Hours: 3
  - Introduction to successful selling practices and principles through presentation, discussion, role-playing, and workshops. Includes principles of prospecting, establishing rapport, generating curiosity, being persuasive, creating desire, handling objections, and closing.
  - Prerequisite(s) with concurrency: MKT 300