

**UTEP Undergraduate Curriculum Committee
Meeting Agenda
March 2, 2020**

I. Call to order

Meeting was called to order by C. Ellis at 3:07 p.m.

II. Members present:

- ☒ Carla Ellis, School of Nursing
- ☐ Andrew Fleck, College of Lib Arts
- ☒ Vinod Kumar, College of Engineering
- ☒ Hettie Houghton, College of Business
- ☒ Emre Umucu, College of Health Sciences
- ☐ Rey Reyes, College of Education
- ☐ Art Duval, College of Science
- ☒ Jose Herrera, College of Education, At-Large
- ☒ James Salvador, College of Science, At-Large
- ☒ Lori Acosta, School of Nursing, At-Large
- ☐ Juan Jose Martinez, Student Member
- ☐ Matthew Garcia, Student Member

III. Visitors present:

IV. Old Business:

- A. Minutes from February 3 meeting, approved by online vote on February 4, 2020
Motion passes (10 in favor, 0 opposed, 0 abstentions)**

B. Policy Changes: none

C. Tabled Items:

- 1. College of Engineering**
 - a) Department of Computer Science**
 - b) Proposal: Computer Science curriculum changes for the Fall 2020 Catalogue (Item 3)**
 - c) Action Item: Add new courses: CS 2101(Discrete Structures I) and CS 2202 (Discrete Structures II).**
 - d) Rationale: The two courses have been offered as special topics every semester starting Fall 2018 as an alternate prerequisite for course requiring MATH 2300 (Discrete Mathematics). The courses focuses on applications of discrete structures that are central to Computer Science. The course CS 2101 contains material not dependent on MATH 1411 (Calculus I). This**

allows students to take the one credit course along with their first CS required course and start earlier to develop their mathematical maturity. The CS department has developed the course descriptions and outcomes in consultation with the Math Department.

- e) Motion to Approve made by Emre Umucu, seconded by Jose Herrera.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

2. College of Engineering

- a) Department of Computer Science
- b) Proposal: Computer Science curriculum changes for the Fall 2020 Catalogue (Item 6).
- c) Action Item: Change course prerequisites for CS 2302 to explicitly require MATH 2300 (or equivalently the new courses DS 2101 and CS 2202) as prerequisite for several courses at the junior/senior level. Also remove CS 2402 as an alternate prerequisite. The course (CS 2101 and CS 2102) should also be added as a MATH 2300 alternate prerequisite.
- d) Rationale: While MATH 2300 is a prerequisite for CS 2302 at UTEP, it is not at other community colleges or universities, so explicitly requiring these prerequisites will assist with preparation for these courses, regardless of where they attended prior. Course CS 2402 removed as the course has not been taught for over 10 years.
- e) Motion to Approve made by Emre Umucu, seconded by Jose Herrera.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

V. New Business:

A. College of Engineering

1. Department of Engineering Education and Leadership Department

- a. Proposal: Proposed changes to the BS in Engineering Leadership Degree Name and Plan
- b. Action Item:
 - 1) Change name of degree to BS in Engineering, Innovation and Leadership. Rationale: Given the evolving nature of our new degree since 2014 coupled with the emphasis our degree has on innovation and entrepreneurship
 - 2) Add Mechanical Engineering Sequence to our existing six sequences (see changes in Concentrations section of catalogue).
 - 3) Change the name of current Engineering Mechanics sequence to Civil Engineering Concentration Rationale: To more clearly reflect its coursework and not confuse it with the Mechanical Engineering Concentration.
 - 4) Change the name of the current General Engineering Sequence to Engineering Innovation sequence.
 - 5) All sequences except the CS sequence will take CS 1320 instead of COMM 1302 as part of the University Core.
 - 6) Change prerequisites for EL 1405: delete MATH 1411 as prerequisite, change to corequisite MATH 1411 OR MATH 1508 OR MATH 1310 and Change prerequisite and corequisites for EL 2301: delete MATH 1312 w/C or better to MATH 1411 w/C or better AND CS 1320 w/C or better, except CS Concentration (requires CS 1301 w/C or better).

- 7) Change all names with “concentration” to “emphasis” and “sequences” to “concentration”. Rationale: To be consistent with the COEN descriptors and nomenclature.
- c. Motion to Approve made by Vinod Kumar, seconded by Lori Acosta.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

2. Department of Metallurgical, Materials and Biomedical Engineering (MMBME)

a. Proposal: BS MME Degree Plan Changes

b. Action Items:

- 1) Deletion of MME courses: MME 1301, MME 1101, MME 3312, MME 3314, MME 4195, MME 4413, MME 3321
Rationale: A change of course is being implemented for these courses and they are being added using the course add forms with catalogue changes
- 2) Removal of required courses from BS MME degree MECH 2342, MME 3312, and MME 4304. Rationale: Please see document.
- 3) Addition of new courses (20): Please see document.
- 4) Course name change and schedule type from 3hour lecture to 2 hour lecture and 3 hour lab for MME 3309.
- 5) Prerequisites changes for the following courses: MME 1205, MME 2305, MME 2434, MME 4304, MME 3407, MME 4303, MME 4309, MME 4310, MME 4404 Please see document with changes. Rationale: To better represent the background required for each course.
- 6) Removal of 3 existing concentrations: General Metallurgical and Materials Concentration, Manufacturing Concentration, and Printed Nano Engineering Concentration. Rationale: Only BS MME concentration has been implemented for the past 5 years. Four new concentrations are being added based on input from faculty and the MMBME industry advisory board.
- 7) Addition of 4 new concentrations: Forensic Engineering and Materials Performance, Extractive and Process Metallurgy, Biomaterials, and General MME Concentration. Please course related info on document.
Rationale: The general BS MME concentration is being modified in order to improve the progression of student knowledge as they transition through the curriculum and new concentrations and courses were added based on faculty and IAB input.

- c. Motion to Approve made by Jose Herrera, seconded by Vinod Kumar.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

3. Department of Industrial, Manufacturing and Systems Engineering (IMSE)

a. Proposal: IMSE department curriculum changes for the Fall 2020 catalogue

b. Action Items and Rationale:

- 1) Add courses: IE 1333: Computational Methods (no prerequisites) and IE 2333 Decision Support Systems (prerequisite 1333 with C or better) to the BS in ISE degree plan. Rationale: computational methods in the first semester provides computer programming groundwork for industrial and systems engineering. Decision support systems are now necessary to understand Big Data.
- 2) Consolidate the 3 courses into 2 and by Adding following :
IE 3377 Intro to Work Design (3SCH = 2 lecture and 3 lab hours),
IE 4332 Work Design Productivity and Safety (3 SCH = 2 lecture and 3 lab hours)

IE 4266 Senior Design (2 SCH= 6 lab hours)(will have prerequisites CE 2326 AND IE 3331)

Rationale: The material from 3 courses will be consolidated into 2 courses, both to streamline the teaching of this material and also to make room in the curricular plan for the new courses, IE 1333 and IE 2333 (see #1). Additionally, in order for senior students to develop better Senior Design projects with industrial partner companies, it is necessary for students to have an understanding of project costs, hence the prerequisite addition of CE 2326 and also of systems engineering, hence the prerequisite addition of IE 3331 .

3.) Change the name of the following courses:

IE 3390 Operation Research I to Operations Research I: Deterministic Models

IE 4390 Probabilistic Operations Research to Operations Research II: Stochastic Models

IE 4391 Production and Inventory Control to Production Planning and Inventory Control Systems

Rationale: With the IMSE Department's change from an IE (Industrial Engineering program to an ISE: Industrial and Systems Engineering program, the content and titles of courses must change.

- c. Motion to Approve made by Vinod Kumar, seconded by Hettie Houghton.
Motion passes (7 in favor, 0 opposed, 0 abstentions)**

B. College of Business Administration

1. Department of Accounting and Information Systems

- a. Proposal: QMB 3350 or QMB 3301 for Accounting Major Students**
- b. Action Item: Add QMB 3301 Quantitative Methods in Business as an alternative to QMB 3350 Business Analytics to required Courses in the BBA degree plan for those pursuing Accounting Major.**
- c. Rationale: The accounting faculty examined the updated syllabus for QMB 3301 and agreed that it would provide adequate preparation for students pursuing a degree in accounting, similarly to QMB 3350 that is already a required class for BBA Accounting students.**
- d. Motion to Approve made by Hettie Houghton, seconded by Lori Acosta.
Motion passes (7 in favor, 0 opposed, 0 abstentions)**

C. College of Liberal Arts

1. Department of Psychology

- a. Proposal: Change to Psychology BA Degree Plan**
- b. Action Item: Put PSYC 4316 back into the Major Elective option of courses in the Psychology BA Degree Plan.**
- c. Rationale: This course was incorrectly removed from the list during last year's curriculum changes.**
- d. Motion to Approve made by Jose Herrera, seconded by Emre Umucu.
Motion passes (7 in favor, 0 opposed, 0 abstentions)**

2. Department of Criminal Justice

- a. Proposal: INSS Minor Curriculum Changes**
- b. Action Items and Rationales:**
 - 1) Add 5 relevant upper division prescribe elective courses to its minor:**

INSS 3349, INSS 4302, INSS 4303, INSS 4347, INSS 4380. Rationale: These courses already exist in other degree plans within Criminal Justice and add relevance to the degree plan

- 2) Deletion of the following 4 lower division courses that are no longer offered: INSS 1340, INSS 1345, INSS 1348, INSS 2350. Rationale: INSS 2350 was replaced with 4350 and the other 3 lower division courses have not been offered in many years and there are no plans to offer them in the future.
- 3) Removal of the department approval registration restriction to all INSS courses. Rationale: INSS students come from majors across the College of Liberal Arts so there is no need to have this registration hold, especially when minors are not required to get advised.
- 4) Remove prerequisite of INSS 3302 for following courses: INSS 3310, INSS 3315, INSS 3320, and INSS 4302. Rationale: INSS 3302 is a seminar course and does not provide any necessary skills or knowledge to be successful in the courses listed.
- 5) Remove prerequisite of INSS 3340 from INSS 4347. Rationale: INSS 3340 is a seminar course and does not provide any necessary skills or knowledge to be successful in the courses listed.
- 6) Remove prerequisite of INSS 3348 for INSS 4380. Rationale: The prerequisite is not applicable and not needed.
- 7) Remove classification restriction for INSS 3343 and INSS 4309. Rationale: Other INSS courses do not have this restriction and all are considered upper division electives.
- 8) Add departmental approval to INSS 4366 Security Studies Internship, and add a prerequisite to the courses, INSS 3302 with a C or better. Rationale: The dept requires an approval with its other internships and the prerequisite add is to encourage students to complete at least one of their program requirements prior to competing an internship.
- 9) Limit *only* students majoring in Bachelors of Multidisciplinary Studies to be eligible for INSS Undergraduate Certificate. Also, make 6 hours of electives for this Certificate be at the upper division *only* (3000 and 4000) Rationale: Four of the lower division courses are slated for deletion (#2 above) and 17 upper division courses is ample amount of choices to choose 2 required courses from.

c. Motion to Approve made by Hettie Houghton, seconded by Jose Herrera
Motion passes (7 in favor, 0 opposed, 0 abstentions)

D. College of Science

1. Department of Geological Sciences

- a. Proposal: Create Freshman level introduction to Environmental Science II
- b. Action Item: Add new course ESCI 1202 Introduction to Environmental Science 2
- c. Rationale: Course will expand on knowledge introduced in ESCI 1301. This will also allow non-majors to complete a 6 credit sequence in Environmental Sciences (if ESCI 1102 is included).
- d. Motion to Approve made by Lori Acosta, seconded by Emre Umucu.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

2. Department of Mathematical Sciences

- a. Proposal: Core Approval for MATH 1309: College Algebra and 1310: Trigonometry and Conics.
- b. Action Item: Create core status for MATH 1309: College Algebra
- c. Rationale: This course focuses on developing critical thinking skills using practical problem solving skills. With this and MATH 1310: Trigonometry and Conics, students can fulfill the core mathematics requirements.
- d. Motion to Approve made by Jose Herrera, seconded by Emre Umucu.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

3. Department of Mathematical Sciences

- a. Proposal: Catalog Cleanup in Mathematical Sciences
- b. Action Items:
 - 1) Delete following courses: MATH 1508A, 1508B, 1508C, 1411A, 1411B, 1411C. Rationale: These divided courses are still in their full semester versions and have not been offered in several years.
 - 2) STAT 1380: Updated Title and small changes to course description
 - 3) STAT 4380: Update Title.
 - 4) MATH 2320: Restricting prerequisites.
 - 5) MATH 3329: Removing restriction to Juniors and Seniors
 - 6) MATH 3335: More specific course description
 - 7) MATH 4303: Removing restriction to Seniors
 - 8) MATH 4329: Updated and more specific course description
- c. Rationale: Catalogue cleanup to repair minor errors and updates.
- d. Motion to Approve made by Emre Umucu, seconded by Vinod Kumar.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

4. Department of Mathematical Sciences

- a. Proposal: Creation of STAT 4329 Statistical Programming
- b. Action Item: Cross list Master's level course STAT 5329 as a senior Undergraduate course STAT 4329.
- c. Rationale: This Master's level course is a beginning graduate level course and is necessary for undergraduate students in the field to have a grasp of R and Python programming to prepare students for advanced statistical analysis in these languages.
- d. Motion to Approve made by Jose Herrera, seconded by Lori Acosta.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

5. Department of Mathematical Sciences

- a. Proposal: Creation of STAT 4474: Intro to Data Mining.
- b. Action Item: Add new course STAT 4474: Intro to Data Mining with prerequisite and Corequisite of STAT 4385 with a C or better AND STAT 4329 with a C or better.
- c. Rationale: This course will broaden access of data mining training to undergraduate students at UTEP. Those with experience with multivariate statistical modeling will be prepared for the course
- d. Motion to Approve made by Emre Umucu, seconded by Jose Herrera.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

6. Department of Mathematical Sciences

- a. Proposal: Change of Statistics to Data Science Minor in Mathematical Sciences
- b. Action Items and Rationales:

- 1) Change the name of the minor: Statistics to: Data Science. Rationale: This will attract a greater variety of students who want to develop data analytic skills.
- 2) Allow students to choose from a set of relevant courses, rather than routing all students into the same set of courses. Rationale: Allows for flexibility for students of varying background, interests and goals.
- 3) The revised minor will allow students to take (optionally) newly offered senior level classes in statistical programming and data mining. Rationale: These are in high demand at the undergraduate level and we have piloted the programming course with undergraduates.

c. Motion to Approve made by Jose Herrera, seconded by Emre Umucu.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

7. Department of Mathematical Sciences

a. Proposal: Change of Statistics to Data Science Concentration in Mathematics

b. Action Items and Rationales:

- 4) Change the name of the concentration: Statistics to: Data Science. Rationale: This will attract a greater variety of students who want to develop data analytic skills.
- 5) Allow students to choose from a set of relevant courses, rather than routing all students into the same set of courses. Rationale: Allows for flexibility for students of varying background, interests and goals.
- 6) The revised concentration will allow students to take (optionally) newly offered senior level classes in statistical programming and data mining. Rationale: These are in high demand at the undergraduate level and we have piloted the programming course with undergraduates.

c. Motion to Approve made by Jose Herrera, seconded by Vinod Kumar.
Motion passes (7 in favor, 0 opposed, 0 abstentions)

VI. Motion to adjourn made by Jose Herrera, seconded by Emre Umucu Motion passes,

Meeting adjourned at 3:50pm.