

College	Department	Proposal	Rationale
College of Engineering	Department of Computer Science	Add 2 new courses: CS 2101 (Discrete Structures I) and CS 2202 (Discrete Structures II).	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.
	Department of Computer Science	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	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
	Department of Engineering Education and Leadership	Change name of degree to BS in Engineering, Innovation and Leadership. Add Mechanical Engineering Sequence to our existing six sequences (see changes in Concentrations section of catalogue). Change the name of current Engineering Mechanics sequence to Civil Engineering Concentration Change the name of the current General Engineering Sequence to Engineering Innovation sequence. All sequences except the CS sequence will take CS 1320	Updates to name and curriculum are based on advisory board and faculty recommendations and cleaning up the degree language to be consistent with the rest of the College of Engineering.

		instead of COMM 1302 as part of the University Core. <u>Change prerequisites for EL 1405:</u> delete MATH 1411 as prerequisite, change to corequisite MATH 1411 OR MATH 1508 OR MATH 1310 and <u>Change prerequisite and corequisites for EL 2301:</u> 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). Change all names with “concentration” to “emphasis” and “sequences” to “concentration”.	
	Department of Metallurgical, Materials and Biomedical Engineering	Deletion of MME courses: MME 1301, MME 1101, MME 3312, MME 3314, MME 4195, MME 4413, MME 3321 Removal of required courses from BS MME degree MECH 2342, MME 3312, and MME 4304 Addition of new courses (20) Course name change and schedule type from 3hour lecture to 2 hour lecture and 3 hour lab for MME 3309. 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. Removal of 3 existing concentrations: General Metallurgical and Materials	Changes are being requested based on several faculty reviews of the MME curriculum. The major changes to the degree plan include the removal of 3 required courses in order to increase the number of electives from one to four and the replacement of the existing concentrations with updated concentrations that are relevant to industry.

		Concentration, Manufacturing Concentration, and Printed Nano Engineering Concentration. Addition of 4 new concentrations: Forensic Engineering and Materials Performance, Extractive and Process Metallurgy, Biomaterials, and General MME Concentration.	
	Department of Industrial, Manufacturing and Systems Engineering	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. Consolidate 3 courses into 2 and by Adding following : IE 3377 Intro to Work Design IE 4332 Work Design Productivity and Safety Senior Design will have prerequisites CE 2326 AND IE 3331 Change the name of the following courses: IE 3390 IE 4390 IE 4391	The changes are necessary to address modern trends towards the computational handling of large data sets in support of industrial decision making.
College of Business Administration	Department of Accounting and Information Systems	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.	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.
Liberal Arts	Department of Psychology	Put PSYC 4316 back into the Major Elective option of courses	This course was incorrectly removed from the list during

		in the Psychology BA Degree Plan.	last year's curriculum changes.
	Department of Criminal Justice	Add 5 relevant upper division prescribe elective courses to its minor: INSS 3349, INSS 4302, INSS 4303, INSS 4347, INSS 4380. Deletion of the following 4 lower division courses that are no longer offered: INSS 1340, INSS 1345, INSS 1348, INSS 2350. Removal of the department approval registration restriction to all INSS courses. Remove prerequisite of INSS 3302 for following courses: INSS 3310, INSS 3315, INSS 3320, and INSS 4302. Remove prerequisite of INSS 3340 from INSS 4347. Remove classification restriction for INSS 3343 and INSS 4309. Add departmental approval to INSS 4366 Security Studies Internship, and add a prerequisite to the courses, INSS 3302 with a C or better. Limit <i>only</i> 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 <i>only</i> (3000 and 4000)	These changes are to ease a burdensome registration process and allow more choice in upper division electives for the minor.
College of Science	Department of Geological Sciences	Add new course ESCI 1202 Introduction to Environmental Science 2	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).
	Department of Mathematical Sciences	Create core status for MATH 1309 and 1310	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.
	Department of Mathematical Sciences	Delete following courses: MATH 1508A, 1508B, 1508C, 1411A, 1411B, 1411C. STAT 1380: Updated Tittle and small changes to course description STAT 4380: Update Tittle. MATH 2320: Restricting prerequisites. MATH 3329: Removing restriction to Juniors and Seniors MATH 3335: More specific course description MATH 4303: Removing restriction to Seniors MATH 4329: Updated and more specific course description	Catalogue cleanup to repair minor errors and updates.
	Department of Mathematical Sciences	Cross list master's level course STAT 5329 as a senior undergraduate course STAT 4329.	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.
	Department of Mathematical	Add new course STAT 4474: Intro to Data Mining with prerequisite	This course will broaden access of data mining

	Sciences	and Corequisite of STAT 4385 with a C or better AND STAT 4329 with a C or better.	training to undergraduate students at UTEP. Those with the prerequisite will be better prepared for the course
	Department of Mathematical Sciences	Change and revise Statistics Minor to Data Science <i>Minor</i> in Mathematical Science. Allow students to choose from a set of relevant courses, rather than routing all students into the same set of courses The revised minor will allow students to take (optionally) newly offered senior level classes in statistical programing and data mining.	Data Scientists are essential for organizations wishing to make use of data for informing change in their organization. The revised minor would meet industry demand with the changes listed.
	Department of Mathematical Sciences	Change and revise Statistics Concentration to Data Science <i>Concentration</i> in Mathematical Science. Allow students to choose from a set of relevant courses, rather than routing all students into the same set of courses The revised concentration will allow students to take (optionally) newly offered senior level classes in statistical programing and data mining.	Data Scientists are essential for organizations wishing to make use of data for informing change in their organization. The revised concentration would meet industry demand with the changes listed.