

If 4 a, b, c, or d was answered with yes, please answer the following questions:

If the proposal has potential budgetary impacts for another college/school, such as requiring new sections or a non-negligible increase in the number of seats offered, at least one contact must be at the college-level.

How many students do you expect to be impacted?

Impacted schools must be contacted and their response(s) included:

Person communicated with:

Date of communication:

Response:

- e. Does this proposal involve changes to the core curriculum or other basic education requirements (42-hour core, signature courses, flags)? If yes, explain:

If yes, Undergraduate Studies must be informed of the proposed changes and their response included:

Person communicated with:

Date of communication:

Response:

- f. Will this proposal change the number of hours required for degree completion?

Note: THECB Semester Credit Hour Change Form required, download from URL:

<http://www.thecb.state.tx.us/reports/DocFetch.cfm?DocID=2419&format=doc>

If yes, explain:

5. COLLEGE/SCHOOL APPROVAL PROCESS

Department approval date:	May 18, 2017	Approved by whom:	Mechanical Engineering Faculty
College approval date:	August 31, 2017	Approved by whom:	Degrees & Courses Committee
Dean approval date:	Sept. 18, 2017	Approved by whom:	CSE Faculty; Sharon L. Wood, Dean

PROPOSED NEW CATALOG TEXT:⁴

See attached

¹ See <https://facultycouncil.utexas.edu/degree-program-changes> for detailed explanations.

² Submit required Texas Higher Education Coordinating Board forms to the provost's office (lydia.cornell@austin.utexas.edu); downloadable from URL <https://facultycouncil.utexas.edu/thecb-forms>

³ **EXCLUSIVE:** of *exclusive* application and of primary interest only to a single college or school ("no protest" period is *seven calendar days*); **GENERAL:** of *general* interest to more than one college or school (but not for submission to the General Faculty) ("no protest" period is *fourteen calendar days*); *major* legislation must be submitted to the General Faculty for adoption ("no protest" period is *fourteen calendar days*).

⁴ The proposed text should be based on the text of the current catalog available at: <http://catalog.utexas.edu/undergraduate/>

Strike through and replace (with underlines) only the specific language to be changed. Do NOT use track changes, and do not include hyperlinks in the catalog copy. Submit form electronically to the Office of the General Faculty and Faculty Council at fc@austin.utexas.edu. For questions on completing this section, please contact Victoria Cervantes, fc@austin.utexas.edu, 471-5934 or Brenda Schumann, brenda.schumann@austin.utexas.edu, 475-7654.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Mechanical engineering is one of the largest and broadest fields of technical study. Mechanical engineers are concerned with the engineering systems used to control and transform energy to meet the needs of humanity. In mechanical engineering, students develop an understanding of basic topics and fundamental principles upon which engineered systems are conceived and developed in a modern society. It is an excellent foundation for a rewarding career in engineering, as well as for further study in business, law, medicine, and other professions that require a solid foundation in science and technology, and the ability to solve problems.

The mechanical engineering department is dedicated to graduating mechanical engineers who practice mechanical engineering in the general stems of thermal/fluid systems, mechanical systems and design, and materials and manufacturing in industry and government settings; pursue advanced education, research and development, and other creative efforts in science and technology; conduct themselves in a responsible, professional, and ethical manner; and participate as leaders in activities that support service to and economic development of the region, state, and nation.

The mechanical engineering faculty has defined 10 educational outcomes that students in the program are expected to achieve by the time of graduation. These outcomes are

- Knowledge of and ability to apply engineering and science fundamentals to real problems
- Ability to formulate and solve open-ended problems
- Ability to design mechanical components, systems, and processes
- Ability to set up, conduct, and interpret experiments, and to present the results in a professional manner
- Ability to use modern computer tools in mechanical engineering
- Ability to communicate in written, oral, and graphical forms
- Ability to work in teams and apply interpersonal skills in engineering contexts
- Ability and desire to lay a foundation for continued learning beyond the baccalaureate degree
- Awareness of professional issues in engineering practice, including ethical responsibility, safety, the creative enterprise, and loyalty and commitment to the profession
- Awareness of contemporary issues in engineering practice, including economic, social, political, and environmental issues and global impact

The mechanical engineering curriculum meets these outcomes by providing breadth and depth across a range of topics.

- A combination of college-level mathematics and basic science courses (some with experimental work) that includes mathematics, probability and statistics, physics, and chemistry
- Engineering courses that develop a working knowledge of graphics and computer-aided design, engineering mechanics, thermodynamics, kinematics, dynamics and control of mechanical systems, computational methods, fluid mechanics, heat transfer, materials science and engineering, mechatronics, technical communication, and engineering economics
- Mechanical engineering project and laboratory experiences that develop competence in measurements and instrumentation, interpretation of data, reverse engineering analysis of mechanical systems, use of computational tools for engineering analysis, integration of multidisciplinary topics in design of complex systems, teamwork and project planning, and written and oral communication
- A sequence of engineering design courses, culminating in a major capstone design experience in collaboration with an industrial sponsor, that draws on the knowledge and skills students have acquired in earlier coursework and incorporates modern engineering standards and realistic constraints
- Core curriculum courses, including social and behavioral sciences, humanities, and visual and performing arts electives, that complement the technical content of the curriculum
- A broad range of senior elective options that provide a career gateway to further study and lifelong learning in the practice of engineering and other professions

PROCEED (Project-Centered Education)

The undergraduate curriculum in mechanical engineering is built on the principle of project-centered education, or PROCEED. A number of courses throughout the curriculum are structured to motivate the study of engineering science by challenging students with in-depth analysis of real mechanical components and systems. In PROCEED, students address real-world projects based on current industrial methods and practices. Undergraduate laboratories and computer facilities are integrated into the curriculum to connect theory with practice.

Portable Computing Devices

Students entering Mechanical Engineering are expected to have a laptop computer at their disposal. The use of laptop computers will be necessary in many required courses, and individual instructors may require that a laptop be brought to class or lab sessions. For a list of minimum system requirements see: <http://www.me.utexas.edu/laptopreq>.

Curriculum

Course requirements include courses within the Cockrell School of Engineering, and other required courses. In addition, each student must complete the University's [core curriculum](#). In some cases, a course required as part of the major may also be counted toward the core curriculum; these courses are identified below.

In the process of fulfilling engineering degree requirements, students must also complete coursework to satisfy the University's flag requirements: one independent inquiry flag, one course with a quantitative reasoning flag, one ethics and leadership flag, one global cultures flag, one cultural diversity in the United States flag, and three writing flags. The independent inquiry flag, the quantitative reasoning flag, the ethics and leadership flag, and three writing flags are carried by courses specifically required for the degree; these courses are identified below. Courses that may be used to fulfill [flag requirements](#) are identified in the [Course Schedule](#).

Requirements		Hours
Mechanical Engineering Courses		
M E 130L	Experimental Fluid Mechanics	1
M E 134L	Materials Engineering Laboratory	1
M E 139L	Experimental Heat Transfer	1
M E 140L	Mechatronics Laboratory	1
M E 144L	Dynamic Systems and Controls Laboratory	1
M E 266K	Mechanical Engineering Design Project (independent inquiry flag and writing flag)	2
M E 266P	Design Project Laboratory	2
M E 302	Introduction to Engineering Design and Graphics	3
M E 314D	Dynamics (Dynamics)	3
M E 316T	Thermodynamics (Thermodynamics)	3
M E 318M	Programming and Engineering Computational Methods	3
M E 330	Fluid Mechanics	3
M E 333T	Engineering Communication (writing flag and ethics and leadership flag)	3
M E 334	Materials Engineering	3
M E 335	Engineering Statistics	3
M E 338	Machine Elements	3
M E 339	Heat Transfer	3
M E 340	Mechatronics	3
M E 344	Dynamic Systems and Controls	3
M E 353	Engineering Finance	3
M E 366J	Mechanical Engineering Design Methodology (writing flag)	3
Chemistry		

CH 301	Principles of Chemistry I (part II science and technology)	3
Engineering Mechanics		
E M 306	Statics	3
E M 319	Mechanics of Solids	3
Mathematics		
M 408C	Differential and Integral Calculus (mathematics; quantitative reasoning flag)	4
M 408D	Sequences, Series, and Multivariable Calculus	4
M 427J	Differential Equations with Linear Algebra	4
or M 427K	Advanced Calculus for Applications I	
M 427L	Advanced Calculus for Applications II	4
Physics		
PHY 303K	Engineering Physics I (part I science and technology; quantitative reasoning flag)	3
PHY 303L	Engineering Physics II (part I science and technology; quantitative reasoning flag)	3
PHY 103M	Laboratory for Physics 303K	1
PHY 103N	Laboratory for Physics 303L	1
Rhetoric and Writing		
RHE 306	Rhetoric and Writing (English composition)	3
Other Required Courses		
Approved career gateway electives		12
Approved natural science/mathematics elective		3
Remaining Core Curriculum Requirements		
E 316L	British Literature (humanities; in E 316L, 316M, 316N, and 316P some sections carry a global cultures or cultural diversity flag)	3
or E 316M	American Literature	
or E 316N	World Literature	
or E 316P	Masterworks of Literature	
American and Texas government (some sections carry a cultural diversity flag)		6
American history (some sections carry a cultural diversity flag)		6
Social and behavioral sciences (some sections carry a global cultures and/or cultural diversity flag)		3
Visual and performing arts (some sections carry a global cultures and/or cultural diversity flag)		3
UGS 302	First-Year Signature Course (in UGS 302 all sections carry writing flag; in UGS 303 some sections carry a writing flag)	3
or UGS 303	First-Year Signature Course	
Total Hours		126

Integrated BSME/MSE program

The integrated degree program results in simultaneously awarding a Bachelor of Science in Mechanical Engineering (BSME) and a Master of Science in Engineering (MSE) degree offered by the Department of Mechanical Engineering. The objective of the Integrated BSME/MSE Program is to enable prepared undergraduates in Mechanical Engineering to earn two degrees in a shortened time period. By applying AP and Credit by Exam courses, having students take recommended summer courses, and By allowing seniors to enroll in graduate-level engineering courses reserved for graduate credit, the program enables graduates to complete both degree requirements within five years.

Admissions. Current undergraduate ME students may begin the application process to the Integrated BSME/MSE Program option in the first term of their third year. Admission includes the two steps outlined below. Undergraduate students not in the mechanical engineering major are not eligible to apply. It is expected that all students selected for the program in Step 1 and have been successful in their first graduate-level coursework will be selected for admission in Step 2. Successful completion will be evaluated and determined by the department's Domestic Graduate Admission Committee and the Graduate Advisor.

Step 1. Students go through the first step in application for admission to the Integrated BSME/MSE Program in the first term of the third year. The Step 1 application is internal through the department and includes a resume, statement of purpose, and letters of recommendation. Qualified applicants will be selected based on the applicant's progress to degree completion, grade point average, and other qualifications included in the application materials. Selected students will be notified early in the second term of the third year of their admission status for the integrated program, allowing them to meet with an Academic Advisor to plan graduate coursework in the first term of their fourth year.

Step 2. Students go through the second step in the application in the second term of their fourth year. The Step 2 application is formal through the Graduate and International Admission Center (GIAC). Admission to the integrated program will be based on a review of the applicant's undergraduate record and GPA, GRE scores, performance in graduate coursework, letters of recommendation, personal statement, TOEFL score (if required), and research experience.

If a student in their fourth year is taking graduate courses and would be on track to complete the integrated program but did not apply in their third year through Step 1, they may also choose to apply in Step 2 and formally apply through GIAC. These students will be evaluated for admission on the same criteria.

Degree Requirements. In order for integrated program students to complete both the BSME and MSE degrees in five years, the department waives 6 semester credit hours (SCH) of technical area electives in lieu of 6 SCH of graduate engineering coursework reserved for graduate credit taken in the fourth year. This reduces the total BSME degree requirements for integrated program students from 126 to 120 SCH.

Students in the integrated program complete 12 SCH of graduate coursework in their fourth year and 18-24 SCH of graduate coursework in their fifth year to complete a total of 30-36 SCH of graduate coursework for the MSE degree as described in the Graduate Catalog. Students have the option of choosing the coursework, report, or thesis option for the MSE degree as described in the Graduate Catalog. The selected degree option determines the number of hours required to graduate with the MSE degree. Courses the student takes will be determined with the Graduate Advisor and Academic Advisor to ensure compliance with degree requirements and meet the students' career goals.

Students unable to successfully complete the integrated program, or who wish to terminate pursuit of the MSE for any reason, may obtain a BSME degree by satisfying all of the requirements for the standalone degree. 6 SCH of the graduate courses taken in the fourth year may count toward the 12 SCH of CGEs required to complete the entire 126 SCH requirements. An undergraduate student leaving the integrated program will be on a trajectory to graduate with the regular BSME degree in the same timeframe prior to admission to the integrated program.

Graduates of the integrated program will receive the BSME and MSE degrees simultaneously after successfully completing the 120 SCH for the BSME and 30-36 SCH for the MSE, a total of 150-156 SCH. Ideally students in this program will graduate with both degrees in a total of five years to completion.

Advising. Once admitted, students will be advised each semester by the Graduate Advisor and an Academic Advisor to complete coursework required for the BSME degree in their fourth year, and completion of the coursework required for the MSE degree in their fourth

and fifth years.

Information regarding the integrated program requirements and policies may be obtained from the ME Academic Advising Office in ETC 5.224.

Bridges to the Future Credential Program

The Department of Mechanical Engineering offers highly qualified senior-level undergraduate students an opportunity for in-depth study and research in an emerging area of mechanical engineering through the Bridges to the Future Credential Program. Upon completion of a prescribed series of technical electives and an independent research study under the direction of a faculty member and a doctoral student mentor, students receive a signed award and a letter from the department chair that describes the program and the work completed. This credential and its supporting documentation, plus supporting letters from supervising faculty and mentors, can be valuable assets for students applying to graduate school or pursuing competitive job opportunities. This program will not appear on the student's transcript.

Students must apply for admission to a credential program during the junior year. In some cases, the coursework may include a graduate course, which may be credited toward a University graduate degree.

Details on course offerings and admission procedures are available from the Department of Mechanical Engineering undergraduate office and [on the mechanical engineering website](#).

Career Gateway Elective Options

The mechanical engineering curriculum includes 12 hours of career gateway electives, which are to be selected by the student to support his or her career goals. These courses should be chosen carefully and must be pertinent to each other and to the student's career goals.

Students are required to review these materials and to meet with an adviser to discuss their options prior to selecting their career gateway elective courses.

Career gateway electives can include approved upper-division courses from mechanical engineering and other engineering departments, as well as upper-division courses from a number of other colleges and departments. A detailed description of courses that satisfy the career gateway elective requirements is available on the advising section of the mechanical engineering website. Highly qualified students are encouraged to fulfill career gateway elective requirements as part of the Bridges to the Future Credential Program described above.

SUGGESTED ARRANGEMENT OF COURSES

First Year

First Term	Hours	Second Term	Hours
CH 301	3	M 408D	4
M 408C	4	PHY 303K	3
M E 302	3	PHY 103M	1
RHE 306	3	Social and behavioral sciences	3
UGS 302 or 303	3	Visual and performing arts	3
		American history	3
	16		17

Second Year

First Term	Hours	Second Term	Hours
E M 306	3	E M 319	3
M 427J or 427K	4	M 427L	4
M E 316T (Thermodynamics)	3	M E 318M	3

PHY 303L	3	M E 314D (Dynamics)	3
PHY 103N	1	M E 333T	3
American and Texas Government	3		
	17		16

Third Year

First Term	Hours	Second Term	Hours
M E 330	3	M E 338	3
M E 130L	1	M E 339	3
M E 334	3	M E 139L	1
M E 134L	1	M E 340	3
M E 335	3	M E 140L	1
Approved career gateway elective	3	Approved career gateway elective	3
	14		14

Fourth Year

First Term	Hours	Second Term	Hours
M E 344	3	M E 266K	2
M E 144L	1	M E 266P	2
M E 353	3	Approved career gateway elective	3
M E 366J	3	Approved mathematics/natural science elective	3
Approved career gateway elective	3	E 316L, 316M, 316N, or 316P	3
American and Texas government	3	American history	3
	16		16

Total credit hours: 126

Summary

INTEGRATED PROGRAM RESULTING IN THE SIMULTANEOUS AWARDING OF A BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING AND MASTER OF SCIENCE IN ENGINEERING

The Department of Mechanical Engineering (ME) seeks approval to create an integrated degree program leading to the simultaneous awarding of the Bachelor of Science in Mechanical Engineering (BSME) and Master of Science in Engineering (MSE) degrees in five years. The program will have a two-part admissions process. ME undergraduate students will apply for provisional admission to the BSME/MSE integrated degree program in their third year by submitting an application to the Department of Mechanical Engineering. If accepted, students will complete a modified BSME degree option and begin taking graduate courses during their senior year, reserving up to 12 SCH of this coursework for graduate credit. Students who successfully complete this graduate coursework will apply for formal admission to the Graduate School during their fourth year by submitting an application to the Graduate and International Admissions Center. The BSME and MSE degrees will be awarded simultaneously when the student has completed the requirements of both programs at the end of the fifth year.

This proposal follows the structure of the five-year integrated program offered by the Department of Electrical and Computer Engineering at The University of Texas at Austin. The proposed program is similar to integrated bachelor's/master's, programs offered at top-ranked peer mechanical engineering departments such as at Georgia Tech, Purdue University and the University of Michigan.

The program serves three primary goals: (1) provide graduates with further employability in technical fields where an advanced degree is sometimes essential; (2) allow graduates from our program who are already going to advanced degree programs to reduce forgone earnings and increase lifetime earnings by entering the workforce or doctoral programs earlier with an advanced degree; and (3) recruit top high school students that would otherwise consider our top-ranked, peer schools to participate in an integrated program.

The BSME/MSE integrated degree program will provide a shortened degree completion path for the mechanical engineering undergraduates to earn both degrees in five years. Currently the standalone BSME degree plan requires 12 SCH of career gateway electives (CGEs). In the integrated program option, 6 of these hours will be waived based on completion of 6 SCH of graduate-level engineering coursework taken for the MSE degree. The modified BSME degree option will reduce the overall BSME degree requirements from 126 to 120 SCH for students in the integrated program and maintains the minimum number of engineering credits required by ABET.

Students in the BSME/MSE integrated program will reserve up to a total of 12 SCH of graduate engineering coursework for graduate credit in their fourth year. The MSE degree requires completion of between 30 and 36 SCH dependent upon selection between coursework, report, and thesis degree options. Students in the BSME/MSE integrated program will ideally finish the remaining 18-24 SCH required for the MSE degree in one year, thereby completing requirements for both degrees in 5 years.

Proposal for an Integrated Program
Resulting in the Simultaneous Awarding of

Bachelor of Science in Mechanical
Engineering

and

Master of Science in Engineering

To be effective Fall 2018

The Department of Mechanical Engineering
The Cockrell School of Engineering

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Rationale

The Department of Mechanical Engineering (ME) seeks approval to create an integrated degree program leading to the simultaneous awarding of a Bachelor of Science in Mechanical Engineering (BSME) degree and a Master of Science in Engineering (MSE) degree in five years.

Program Need

The proposed BSME/MSE integrated degree program addresses identified needs of mechanical engineering graduates to: (1) graduate with further employability in complex technical fields where an advanced MSE or PhD degree is often required; (2) reduce forgone earnings and increase lifetime earnings by entering the workforce or doctoral program earlier with a MSE degree; and (3) recruit top high school students that would otherwise favor offers from our top-ranked, peer schools to participate in an integrated program.

In this academic year, the Department of Mechanical Engineering's newly formed Undergraduate Advisory Board (UAB)—whose mission as representatives of the undergraduate student population is to provide advice to the department on curriculum, community, and facilities—recommended the department consider offering an integrated program to help prepare students for careers in industry and PhD programs, make the most of undergraduate research experiences within the department, and make the most of the 126 semester credit hours required in the BSME degree program. A survey of undergraduate students conducted by the ME UAB showed strong support for the program.

Furthermore, many students in ME already earn a significant number of credits from Advanced Placement courses in high school and have time in their course schedules to take more coursework and participate in research. A combined five-year plan will allow these students to use their available time to take graduate courses and build on existing research experience toward earning a master's degree.

Program Demand

Combined bachelor's and master's programs are available at a number of top-ranked mechanical engineering departments in the United States. In addition to the demand from current students, the proposed program will allow The University of Texas at Austin to compete for top high school graduates by offering the opportunity to earn two degrees in five years from a major public research institution. Top out-of-state mechanical engineering competitive programs—such as Georgia Tech, Purdue University, Stanford University, University of California Berkeley, and University of Michigan—offer a five-year, combined-program option.

Similar Programs

See Appendix A – Integrated BS/MS Programs at Peer Institutions

Program Description

Program Objectives

The objective of the BSME/MSE integrated program is to enable prepared undergraduates in Mechanical Engineering to earn two degrees in a shortened time period. Through offering an early-entry point for qualified seniors and allowing seniors to enroll in graduate-level engineering courses reserved for graduate credit, the program enables graduates to complete both degree requirements within five years.

Admission Requirements and Process

Admission to the Integrated BSME/MSE Program will happen in two steps. Step 1 will happen in the first term of the third year and will consist of an internal application to the Department of Mechanical Engineering. Step 2 will happen in the first term of the fourth year and will consist of a formal application to UT Austin’s Graduate and International Admissions Center. Academic Advisors in the Department of Mechanical Engineering will offer information sessions each semester to current BSME students covering the integrated program requirements, processes, and benefits of participation. Attending an information session will not be required to apply. **Figure 1** illustrates the overall timeline for admission and program completion.

Figure 1 *Integrated Program Admission Timeline*

Year	Semester	Educational Activities	Integrated Program Admission
1	Fall-Spring	Completion of Y1 BSME requirements	N/A
2	Fall-Spring	Completion of Y2 BSME requirements	Attend program info session (optional)
3	Fall	Completion of Y3 BSME requirements	Step 1 Application Submission to Department of ME
3	Spring	Completion of Y3 BSME requirements	Step 1 Admission Decision; program advising for Y4 before registration in April
4	Fall	Completion of Y4 BSME requirements; completion/ reservation of 6 SCH of graduate coursework toward MSE	Step 2 Application Submission to Graduate & International Adm. Center;
4	Spring	Completion of fourth-year BSME requirements, less 6 SCH technical area electives; completion/ reservation of 6 SCH of graduate coursework toward MSE	Step 2 Admission Decision; program advising for Y5 before registration in April
5	Fall-Spring	Completion of 18-24 SCH graduate toward MSE	Classified as Master’s student

5	Spring	Graduation: Simultaneous awarding of BSME and MSE degrees	
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Step 1: First Admission Process (Provisional Admission by Department of ME)

Only current undergraduate ME students in good academic standing may apply to the BSME/MSE integrated program. The optimal time for students to apply is in the first term of the third year, prior to rising senior academic advising and registration for the following fall. Application materials, deadlines, and information on procedures will be available online and in the ME Academic Advising Office in ME ETC 5.224.

Qualified students will be selected in the Step 1 admissions process by the department’s Graduate Admissions Committee (a subset of the ME Graduate Studies Committee). Admissions will be based on a review of the applicant’s GPA, resume, and letters of recommendation. Selected individuals will be required to meet with the Graduate Advisor and Academic Advisor to review requirements for the integrated program, plan a path for completion, and be authorized for graduate courses selected for their fourth year. This advising process will also guide students through the selection of a research advisor if one has not already been selected, in the case that the student wishes to pursue the Thesis option of the MSE degree. Integrated program advising will also include post-graduation planning to allow the student to select coursework and activities to meet their individual goals, such planning for internships or a PhD. At this stage, the cohort of Integrated Program juniors and seniors will also have the opportunity to form a support community as they persist through the program together.

Students who are not selected for admission to the integrated program will receive advising and guidance from the Graduate Advisor designed to strengthen future applications to other MS/MSE/PhD programs.

Step 2: Second Admission Process (Formal Admission by Graduate School)

Before the beginning of the fifth year of the program, students in the integrated program must be formally admitted to the Graduate School as master’s students. Students will complete Step 2 of the integrated program’s application process by applying for formal admission to the Graduate School in the second term of their fourth year. Application forms must be completed and submitted to the Graduate and International Admissions Center (GIAC).

Admission to the integrated program will be based on a review of the applicant’s undergraduate record and GPA, GRE scores, performance in graduate coursework, letters of recommendation, personal statement, TOEFL score (if required), and research experience.

It is expected that all students who are provisionally admitted to the integrated program in Step 1 and who are successful in completing graduate-level coursework during their senior year will be selected for formal admission to the Graduate School in Step 2. Admission decisions will be made again by the department’s Graduate

Admissions Committee. Students who are selected will be enrolled in the Graduate School and classified as master's-level students in the fifth year.

In the rare case that an applicant who was admitted in Step 1 is denied admission in Step 2, the student will be advised by the Graduate Advisor regarding the reason and provided guidance to strengthen future applications to other programs. The department will request that any graduate coursework reserved for graduate-credit be reverted to count toward the standalone BSME degree 126 SCH requirements, so the student may graduate on time.

Degree Requirements

Bachelor's Degree

The standalone BSME degree requires 126 SCH of coursework, 12 of which are to be fulfilled through Career Gateway Electives (CGEs). In order for the integrated program students to complete both the BSME and MSE degrees in five years, the proposal seeks a modification to the BSME degree requirements to waive 6 SCH of CGEs in lieu of 6 SCH of graduate engineering coursework. This will reduce the total number of hours required for the BSME degree within the integrated-program arrangement to 120 SCH, thus meeting the University's 120 SCH minimum for bachelor's degrees.

As is very common among ME undergraduates, it is expected that students in the BSME/MSE integrated program will complete approximately 15 SCH of coursework required for the BSME degree through advanced placement credit (CR) for core curriculum and basic science coursework. This will reduce the amount of BSME-related coursework to be completed in the fourth year and will provide students with time in their course schedules to register for graduate coursework that can be reserved for graduate credit and later applied towards their MSE degree requirements. [Appendix B](#) includes the suggested arrangement of coursework for the standalone BSME degree, and [Appendix C](#) includes the comparable suggested arrangement of coursework for the BSME degree within the integrated program arrangement.

[Appendix D](#) includes the ABET table of semester credit hours by subject area in the current standalone BSME degree. Waiving 6 SCH of CGEs from the undergraduate curriculum in lieu of 6 SCH of graduate coursework does not affect the integrated program's compliance with ABET requirements, as ME CGEs do not currently count towards any course categories that are tracked by ABET.

Master's Degree

There are no changes to the MSE degree requirements. Students in the BSME/MSE integrated program can choose to complete 36 SCH of coursework, 30 SCH of coursework with 3 SCH of report coursework, or 24 SCH of coursework with 6 SCH of thesis coursework. [Appendix E](#) includes the program of work form for the MSE degree.

Undergraduate Catalog Statement

The following is the proposed 2018-2020 Undergraduate Catalog Bachelor of Science in Mechanical Engineering statement:

Integrated BSME/MSE program

The integrated degree program results in simultaneously awarding a Bachelor of Science in Mechanical Engineering (BSME) and a Master of Science in Engineering (MSE) degree offered by the Department of Mechanical Engineering. The objective of the Integrated BSME/MSE Program is to enable prepared undergraduates in Mechanical Engineering to earn two degrees in a shortened time period. By allowing seniors to enroll in graduate-level engineering courses reserved for graduate credit, the program enables graduates to complete both degree requirements within five years.

Admissions. Current undergraduate ME students may begin the application process to the Integrated BSME/MSE Program option in the first term of their third year. Admission includes the two steps outlined below. Undergraduate students not in the mechanical engineering major are not eligible to apply. It is expected that all students selected for the program in Step 1 and have been successful in their first graduate-level coursework will be selected for admission in Step 2. Successful completion will be evaluated and determined by the department's Graduate Admission Committee and the Graduate Advisor.

Step 1. Students complete the first step in application for admission to the Integrated BSME/MSE Program in the first term of the third year. The Step 1 application is internal through the department and includes a resume, statement of purpose, and letters of recommendation. Qualified applicants will be selected based on the applicant's progress to degree completion, grade point average, and other qualifications included in the application materials. Selected students will be notified early in the second term of the third year of their admission status for the integrated program, allowing them to meet with an Academic Advisor to plan graduate coursework in the first term of their fourth year.

Step 2. Students complete the second step in the application in the second term of their fourth year. The Step 2 application is formal through the Graduate and International Admission Center (GIAC). Admission to the integrated program will be based on a review of the applicant's undergraduate record and GPA, GRE scores, performance in graduate coursework, letters of recommendation, personal statement, TOEFL score (if required), and research experience.

If a student in their fourth year is taking graduate courses and would be on track to complete the integrated program but did not apply in their third year through Step 1, they may apply by completing Step 1 and Step 2 together. These students will be evaluated for admission on the same criteria.

Degree Requirements. In order for integrated program students to complete both the BSME and MSE degrees in five years, the department waives 6 semester credit hours (SCH) of technical area electives in lieu of 6 SCH of graduate engineering coursework reserved for graduate credit taken in the fourth year. This reduces the total BSME degree requirements for integrated program students from 126 to 120 SCH.

Students in the integrated program complete 12 SCH of graduate coursework in their fourth year and 18-24 SCH of graduate coursework in their fifth year to complete a total of 30-36 SCH of graduate coursework for the MSE degree as described in the Graduate Catalog. Students have the option of choosing the coursework, report, or thesis option for the MSE degree as described in the Graduate Catalog. The selected degree option determines the number of hours required to graduate with the MSE degree. Courses the student takes will be determined with the Graduate Advisor and Academic Advisor to ensure compliance with degree requirements and meet the students' career goals.

Students unable to successfully complete the integrated program, or who wish to terminate pursuit of the MSE for any reason, may obtain a BSME degree by applying for a change of major back to the standalone BSME program and satisfying all of the requirements for the standalone degree. 6 SCH of the graduate courses taken in the fourth year may count toward the 12 SCH of CGEs required to complete the entire 126 SCH requirements. An undergraduate student leaving the integrated program will be on a trajectory to graduate with the regular BSME degree in the same timeframe prior to admission to the integrated program.

Graduates of the integrated program will receive the BSME and MSE degrees simultaneously after successfully completing the 120 SCH for the BSME and 30- 36 SCH for the MSE, a total of 150-156 SCH. Ideally students in this program will graduate with both degrees in a total of five years to completion.

Advising. Once admitted, students will be advised each semester by the Graduate Advisor and an Academic Advisor to complete coursework required for the BSME degree in their fourth year, and completion of the coursework required for the MSE degree in their fourth and fifth years.

Information regarding the integrated program requirements and policies may be obtained from the ME Academic Advising Office in ETC 5.224.

Graduate Catalog Statement

The following is the proposed 2019-2021 Graduate Catalog Master of Science in Engineering statement:

Integrated BSME/MSE program

Admission to the Integrated Bachelor of Science in Mechanical Engineering and Master of Science in Engineering (BSME/MSE) program is open only to

undergraduate students within the Department of Mechanical Engineering at the University of Texas at Austin. It results in the simultaneous awarding of a BSME degree (integrated option) and an MSE degree. The MSE degree options and requirements for students in the Integrated BSME/MSE program are identical to those for students in the traditional MSE program. Admission requirements and procedures for the graduate portion of the Integrated BSME/MSE program also are much the same as for the Traditional MSE program, except that the requirement for an undergraduate degree upon entering the program has been waived by the University.

See the Bachelor of Science in Mechanical Engineering, Integrated BSME/MSE program section of the Undergraduate Catalog for more details about the requirements of the Integrated Option BSME degree. Additional information about the Integrated BSME/MSE program requirements and policies may be obtained from the Mechanical Engineering advising office.

Academic Policies for Continuance

Students admitted to the integrated program are expected to continue to make progress toward both degrees each semester starting in the first term of their fourth year. Each semester, integrated program students will be required to meet with the Graduate Advisor or Academic advisor to review satisfactory progress. All integrated program students must maintain a minimum 3.0 cumulative, in-residence GPA in both programs.

Probation and Dismissal

An integrated program student in undergraduate standing whose GPA falls below a 3.0 will be placed on probation with respect to the BSME/MSE integrated program and, by University policy, will be unable to take graduate courses. A student in graduate standing whose GPA falls below a 3.0 will be placed on probation in accordance with Graduate School policies.

Students in undergraduate standing on probation who fail to attain a satisfactory cumulative GPA of 3.0 at the end of the next term of enrollment are subject to possible dismissal from the integrated program. Students will be allowed to change their major back to the standalone BSME program complete the BSME standalone degree requirements and graduate at the end of their fourth year with one degree. Students in graduate standing on probation who fail to attain a satisfactory cumulative GPA of 3.0 at the end of the next term of enrollment are subject to possible dismissal from the graduate program. The department would petition the Graduate School to revert graduate courses reserved for graduate credit back to count toward undergraduate degree requirements for these students to finish the BSME standalone degree on time.

Program Administration and Academic Advising

The ME Graduate Studies Committee (GSC) will serve as the oversight committee for the MSE portion of the integrated degree program. The Undergraduate Curriculum Advisory Committee (UCAC) will serve as the oversight committee for the BSME portion of the integrated program. The Graduate Advisor and Academic

Advising Coordinator of the standalone MSE and BSME programs, respectively, will administer the integrated degree program. Integrated program students will remain classified as undergraduate students through their fourth year. After successfully completing the second step of the admissions process, students will begin their fifth year in graduate standing classified as master's students.

Students in the BSME/MSE integrated program will be required to meet with an Academic Advisor each semester prior to registration; this will be enforced through an advising registration bar. Academic advisors will ensure integrated program students have completed all requirements for the BSME degree by the end of the fourth year. Academic Advisors will work closely with the Graduate Advisor to guide students in the selection of up to 12 SCH of graduate coursework that will be completed and reserved for graduate credit in the fourth year, and 18-24 SCH of graduate coursework that will be completed in the fifth year. Per University policy, undergraduate students may not reserve more than 12 SCH of coursework for graduate credit. Academic Advisors and the Graduate Coordinator will work closely to ensure students complete the requirements of the MSE degree by the end of the fifth year.

Relationship to Existing Authorized Programs

The integrated program provides an early entry point into the current MSE program for talented ME undergraduates. Admissions processes will be kept commensurate with those of the regular program to maintain the quality of the graduate student body. Students in the integrated program will enroll in the same graduate coursework as students admitted to the standalone graduate programs.

Effects on Existing Authorized Programs

In recent history, the ME department has prioritized admission to the doctoral program over admission to the MSE terminal master's program. The graduate courses offered for both programs are the same and fulfill degree requirements on the program of work for each degree. The BSME/MSE integrated program will slightly increase enrollment in the mechanical engineering graduate programs and increase the number of terminal MSE degrees awarded. The department is prepared to accommodate the addition of integrated program students within existing resources. Increases in class size are not expected to require additional sections of courses or faculty.

Expected Enrollment

The ME department intends the integrated program to be suitable for the most talented undergraduates in UT Austin's mechanical engineering program. We anticipate enrollment of less than 10% of each undergraduate cohort, or no more than 10-15 students per year. The number of admits will be coordinated with the number of available seats in ME graduate courses offered. It is expected that the existing courses can accommodate up to 10-15 students from the integrated program per year.

Resources

Courses

No additional sections or courses will be required. Students in the BSME/MSE integrated program will enroll in existing graduate courses which are already offered on a regular basis. The existing courses have capacity for the additional 10-15 students per year who enter the graduate program through this pathway.

Faculty

No additional faculty will be required. Students in the integrated program will be taught by existing faculty in existing graduate coursework. Students who choose the thesis option will be supervised by existing faculty.

Facilities and Equipment

No additional equipment or laboratories will be required.

Libraries

No additional library resources will be required.

Appendices

Appendix A – Integrated BS/MS Programs at Peer Institutions

See attached.

Appendix B – BSME Suggested Arrangement of Courses

See attached.

Appendix C – BSME Suggested Arrangement of Courses for Integrated Program

See attached.

Appendix D – BSME ABET Table 5-1

See attached.

Appendix E – MSE Program of Work

See attached.

Appendix A

Integrated BS/MS Programs at Peer Institutions

School	Program Name	Application Timing	Min GPA	# hours double-counted	# hours reserved for grad credit	Thesis option hours required	Non-thesis option hours required	Time to complete after undergrad	Notes
UT Austin (proposed)	Integrated BS/MS	Fall junior year	3.5	6	6	24hrs coursework+ 6hrs research	36hrs coursework	Not advertised, estimated 1 year	
Berkeley	Five Year BS/MS								Coursework only, no thesis option
Georgia Tech	BS/MS	Between 30 and 75 undergrad hours completed (including AP credit)	3.5	6	6	21hrs coursework+ 9hrs thesis research	30hrs coursework	1 year non-thesis, 2 years thesis	GRE not required
Michigan	SUGS (Sequential Undergraduate/Graduate Studies)	Senior Year	3.6	9	3	~30 credits		1 year	
MIT	Early Admission	Fall senior year	4.8	N/A	N/A	N/A	N/A	N/A	MIT's program allows senior undergrads to take grad classes and reserve for graduate credit. Limit on number of hours not listed
Purdue	Combined BSME/MSME	Fall junior year	3.4	12		21hrs coursework + 9hrs thesis research	30hrs coursework	1year	
Stanford	Coterminal Masters	After 120 hours	A Average			45 hours		~1 year	Difficult to compare due to quarter system Stanford Fellowships not offered to coterm students

**APPENDIX B - SUGGESTED ARRANGEMENT OF COURSES
2018-2020 CATALOG**

First Year

First Term	Hours	Second Term	Hours
CH 301	3	M 408D	4
M 408C	4	PHY 303K	3
M E 302	3	PHY 103M	1
RHE 306	3	Social and behavioral sciences	3
UGS 302 or 303	3	Visual and performing arts	3
		American history	3
	16		17

Second Year

First Term	Hours	Second Term	Hours
E M 306	3	E M 319	3
M 427J or 427K	4	M 427L	4
M E 316T (Thermodynamics)	3	M E 318M	3
PHY 303L	3	M E 314D (Dynamics)	3
PHY 103N	1	M E 333T	3
American and Texas Government	3		
	17		16

Third Year

First Term	Hours	Second Term	Hours
M E 330	3	M E 338	3
M E 130L	1	M E 339	3
M E 334	3	M E 139L	1
M E 134L	1	M E 340	3
M E 335	3	M E 140L	1
Approved career gateway elective	3	Approved career gateway elective	3
	14		14

Fourth Year

First Term	Hours	Second Term	Hours
M E 344	3	M E 266K	2
M E 144L	1	M E 266P	2
M E 353	3	Approved career gateway elective	3
M E 366J	3	Approved mathematics/natural science elective	3
Approved career gateway elective	3	E 316L, 316M, 316N, or 316P	3
American and Texas government	3	American history	3
	16		16

Total credit hours: 126

APPENDIX C - SUGGESTED ARRANGEMENT OF COURSES FOR INTEGRATED PROGRAM

2018-2020 CATALOG

First Year

First Term	Hours	Second Term	Hours
CH 301	3	M 408D	4
M 408C	4	PHY 303K	3
M E 302	3	PHY 103M	1
RHE 306	3	Social and behavioral sciences	CR*
UGS 302 or 303	3	Visual and performing arts	3
		American history	CR*
		Approved mathematics/natural science elective	3
	16		14

Second Year

First Term	Hours	Second Term	Hours
E M 306	3	E M 319	3
M 427J or 427K	4	M 427L	4
M E 316T (Thermodynamics)	3	M E 318M	3
PHY 303L	3	M E 314D (Dynamics)	3
PHY 103N	1	M E 333T	3
E 316L, 316M, 316N, or 316P	3	American history	CR*
	17		16

Third Year

First Term	Hours	Second Term	Hours
M E 330	3	M E 338	3
M E 130L	1	M E 339	3
M E 334	3	M E 139L	1
M E 134L	1	M E 340	3
M E 335	3	M E 140L	1
Approved career gateway elective	3	M E 353	3
	14		14

Fourth Year

First Term	Hours	Second Term	Hours
M E 344	3	M E 266K	2
M E 144L	1	M E 266P	2
M E 366J	3	American and Texas government	CR*
American and Texas government	CR*	Approved career gateway elective	3
Graduate Coursework	3	Graduate Coursework	3
Graduate Coursework	3	Graduate Coursework	3
	13		13

Total credit hours: 126
Total credit hours toward MSE at the end of Y4: 12

Fifth Year: Graduate Standing

First Term	Hours	Second Term	Hours
Graduate Coursework	3	Graduate Coursework	3
Graduate Coursework	3	Graduate Coursework	3
Graduate Coursework	3	Approved career gateway elective	3
	9		9
Total credit hours toward MSE at the end of Y5: 30			

* As is common among ME undergraduates, it is expected that approximately 15 SCH of coursework required for the BSME degree plan will be completed through advanced placement credit (CR) for core curriculum and basic science coursework. This will reduce the amount of credit enrolled in the fourth year to accommodate graduate coursework.

Appendix D - Table 5-1 Curriculum

Mechanical Engineering 2016

Course (Department, Number, Title) List all courses in the program by term starting with the first term of the first year and ending with the last term of the final year.		Indicate Whether Course is Required, Elective or a Selected Elective by an R, an E or an SE. ¹	Subject Area (Credit Hours)				Last Two Terms the Course was Offered: Year and, Semester, or Quarter	Maximum Section Enrollment for the Last Two Terms the Course was Offered ²
			Math & Basic Sciences	Engineering Topics Check if Contains Significant Design (√)	General Education	Other		
Semester 1	M 408C Differential and Integral Calculus	R	4				2015 Fall & 2016 Spring	240 Lec, 60 Dis
	CH 301 Principles of Chemistry I	R	3				2015 Fall & 2016 Spring	500 Lec
	ME 302 Intro. To Engineering Design and Graphics	R		3 (√)			2015 Fall & 2016 Spring	140 Lec, 28 Dis
	UGS 302/3 First Year Signature Course	SE			3		2015 Fall & 2016 Spring	18 UGS 302/UGS 303 90 Lec, 15 Dis
	RHE 306 Rhetoric and Writing	R			3		2015 Fall & 2016 Spring	25 Lec
Semester 2	M 408D Sequences, Series, & Multivariable Calculus	R	4				2015 Fall & 2016 Spring	120 Lec, 60 Dis
	PHY 303K Engineering Physics I	R	3				2015 Fall & 2016 Spring	140 Lec, 35 Dis
	PHY 103M Engineering Physics I Lab	R	1				2015 Fall & 2016 Spring	24 Lab
	VAPA Visual and Performing Arts	SE			3		2015 Fall & 2016 Spring	Varies by Course
	SOC SCI Social and Behavioral Science	SE			3		2015 Fall & 2016 Spring	Varies by Course
	HIS United States History	SE			3		2015 Fall & 2016 Spring	Varies by Course
Semester 3	M 427J Differential Equations with Linear Algebra	R	4				2015 Fall & 2016 Spring	120 Lec/Dis

	PHY 303L Engineering Physics II	R	3				2015 Fall & 2016 Spring	140 Lec, 35 Dis
	PHY 103N Engineering Physics II Lab	R	1				2015 Fall & 2016 Spring	24 Lab
	EM 306 Statics	R		3			2015 Fall & 2016 Spring	140 Lec, 35 Dis
	ME 326 Thermodynamics	R		3			2015 Fall & 2016 Spring	140 Lec, 35 Dis
Semester 4	ME 318M Intro. To Comp. and Engineering Comp. Methods	R	1	2			2015 Fall & 2016 Spring	92 Lec, 23 Dis
	EM 319 Mechanics of Solids	R		3			2015 Fall & 2016 Spring	160 Lec, 40 Dis
	ME 324 Dynamics	R		3			2015 Fall & 2016 Spring	150 Lec, 25 Dis
	ME 330 Fluid Mechanics	R		3			2015 Fall & 2016 Spring	140 Lec
	ME 130L Experimental Fluid Mechanics	R		1 (√)			2015 Fall & 2016 Spring	140 Lec, 10 Lab
	ME 333T Engineering Communications	R			3		2015 Fall & 2016 Spring	100 Lec, 25 Lab
Semester 5	ME 334 Materials Engineering	R		3			2015 Fall & 2016 Spring	38 Lec
	ME 134L Materials Engineering Lab	R		1			2015 Fall & 2016 Spring	144 Lec, 12 Lab
	ME 339 Heat Transfer	R		3			2015 Fall & 2016 Spring	150 Lec
	ME 139L Experimental Heat Transfer	R		1 (√)			2015 Fall & 2016 Spring	150 Lec, 10 Lab
	ME 335 Engineering Statistics	R	1	2			2015 Fall & 2016 Spring	150 Lec, 25 Dis
	CGE Career Gateway Elective	SE				3	2015 Fall & 2016 Spring	40 Lec
Semester 6	ME 340 Mechatronics	R		3			2015 Fall & 2016 Spring	80 Lec
	ME 140L Mechatronics lab	R		1 (√)			2015 Fall & 2016 Spring	160 Lec, 14 Lab
	ME 338 Machine Elements	R		3 (√)			2015 Fall & 2016 Spring	150 Lec
	ME 353 Engineering Finance	R	1	2			2015 Fall & 2016 Spring	150 Lec, 25 Dis

	CGE Career Gateway Elective	SE				3	2015 Fall & 2016 Spring	40 Lec
	GOV 310L American Government	R			3		2015 Fall & 2016 Spring	325 Lec
Semester 7	ME 344 Dynamic Systems and Controls	R		3			2015 Fall & 2016 Spring	100 Lec
	ME 144L Dynamic Systems and Controls Lab	R		1 (√)			2015 Fall & 2016 Spring	170 Lec, 12 Lab
	ME 366J ME Design Methodology	R		3 (√)			2015 Fall & 2016 Spring	90 Lec, 30 Dis
	CGE Career Gateway Elective	SE				3	2015 Fall & 2016 Spring	40 Lec
	Mathematics Elective	SE	3				2015 Fall & 2016 Spring	Varies by Course
	GOV 312L Topics in Government	R			3		2015 Fall & 2016 Spring	300 Lec
Semester 8	ME 266K Design Project	R		2 (√)			2015 Fall & 2016 Spring	186 Lec
	ME 266P Design Project Lab	R		2 (√)			2015 Fall & 2016 Spring	24 Lab
	CGE Career Gateway Elective	SE				3	2015 Fall & 2016 Spring	40 Lec
	Mathematics or Natural Science Elective	SE	3				2015 Fall & 2016 Spring	Varies by Course
	E 316 Masterworks of Literature	R			3		2015 Fall & 2016 Spring	300 Lec, 25 Dis
	United States History Elective	SE			3		2015 Fall & 2016 Spring	Varies by Course
TOTALS-ABET BASIC-LEVEL REQUIREMENTS				32	51	30	12	
OVERALL TOTAL CREDIT HOURS FOR COMPLETION OF THE PROGRAM			125					
PERCENT OF TOTAL				25.6%	40.8%	24%	9.6%	
Total must satisfy either credit hours or percentage	Minimum Semester Credit Hours		32 Hours	48 Hours				
	Minimum Percentage		25%	37.5 %				

1. **Required** courses are required of all students in the program, **elective** courses (often referred to as open or free electives) are optional for students, and **selected elective** courses are those for which students must take one or more courses from a specified group.
2. For courses that include multiple elements (lecture, laboratory, recitation, etc.), indicate the maximum enrollment in each element. For selected elective courses, indicate the maximum enrollment for each option.

Instructional materials and student work verifying compliance with ABET criteria for the categories indicated above will be required during the campus visit.

Department of Mechanical Engineering

Program of Work for the Master's Degree

 Name (Last, First, Middle)

 UT EID

Degree Sought

Graduate Major and Area

Date Degree Expected

Check your option:

Thesis Option = 30 hours (minimum)

No Thesis/No Report Option = 36 hours (minimum) | |

Report Option = 33 hours (minimum)

List only the courses required for your degree below:

MAJOR COURSEWORK (eighteen hours minimum)

SUPPORTING COURSEWORK (six hours minimum)

<u>Semester Taken</u>	<u>Course Abbrev. & #</u>	<u>Unique #</u>	<u>Grade</u>

<u>Semester Taken</u>	<u>Course Abbrev. & #</u>	<u>Unique #</u>	<u>Grade</u>

AUTHORIZATION OF PROGRAM OF WORK: GRADUATE STUDIES COMMITTEE

 Signature of Supervisor (or Co-Supervisor)

Date

 Signature of Co-Supervisor (if applicable)

Date

 Signature of Area Coordinator (if no Supervisor)

Date

Please submit completed form to the ME Academic Advising Office, ETC 5.224, or email a scanned copy with faculty signature to advising@me.utexas.edu.

This form is due to the ME Academic Advising Office by the **12th class day** of the semester you wish to graduate.