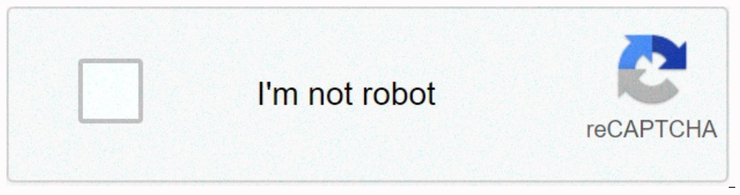

Continue

Ucsd mechanical engineering 4 year plan

STUDENT'S WORK: Warren College 180 Engineering Building II All courses, faculty lists and curriculum and degree requirements described here are subject to change or deletion without prior notice. Our teaching and research programs advance scientific knowledge and create technological innovations to solve outstanding problems in their disciplines. State-of-the-art research covers a variety of areas involving solid mechanics; materials; fluid mechanics and heat transfer; dynamics, systems and controls; energy including combustion and renewable energy; and plasmas. The faculty collaborates with faculty members from other engineering departments, the Faculty of Medicine and the Scripps Oceanographic Institute, and often in the fields. All MAE work programs have powerful components in laboratory experiments, numerical computing and engineering design. The design is discussed throughout the curriculum through high-level design project courses, including open-ended homework problems, laboratory and computer courses involving projects initiated by students, and finally high-level design project courses involving teams of students working to solve engineering design problems brought in from the industry. The Department of Mechanical and Aerospace Engineering (MAE) offers traditional, accredited engineering programs that go to a BS degree in mechanical engineering and a BS degree in aerospace engineering. MAE also offers a traditional non-accredited engineering program that goes to a BS degree in environmental engineering. BS programs require at least 180 units. All MAE work programs have powerful components in laboratory experiments, numerical computing and engineering design. The design is highlighted throughout the curriculum with high-level design project courses that include open-ended homework problems, laboratory and computer lessons involving projects initiated by students, and teams of students working to solve engineering design problems brought in from the industry. MAE programs are designed to prepare undergraduate students for postgraduate education in their professional careers or specializations. Programs can also be received by students who wish to use undergraduate engineering training in preparation for postgraduate vocational training in non-technical fields such as business, law or medicine. Mechanical engineering is a traditional four-year curriculum in the fields of mechanics, vibrations, thermodynamics, fluid flow, heat transfer, material, control theory and mechanical design. Graduates find jobs in the electro-mechanical or biomedical industries, as well as in the machinery and aerospace industries. Mechanical engineers are committed to the material processing, manufacturing, installation and maintenance of lifeguard plants such as power plants. Includes mechanical design, conceptual design 3-D CAD programs, stress, dynamics, heat transfer or fluid dynamics analyses and optimization of the total system for superior performance and customer satisfaction. The aim of production is to improve efficiency and economy by using machine tools, mechatronics, microprocessing and numerical control of rapid prototypization (NC). Currently, engineers have existing computers, process models and sensors to improve the quality and efficiency of production lines. In preparation for this modern era, the mechanical engineering curriculum emphasizes CAD courses, computer lessons, laboratory courses and design courses, as well as providing a strong background in basic science. Students have the option of obtaining a mechanical engineering degree or choosing one of the five specialties in discipline. Students are limited to a specialization. BS degree in mechanical engineering, ABET, accredited by the Engineering Accreditation Commission. The program's training goals are: to provide our students with a strong technical education that will allow them to pursue successful careers as engineers, technology leaders and innovators. Preparing our students for rapid technological change with basic knowledge to ensure that they can advance their knowledge and further education in various disciplines throughout their professional careers. Preparing our students to communicate and work in teams, to deal with the impact of technology on our society and global issues in a knowledgeable and ethical way. Graduates of the ME program are expected to have the following: the ability to identify, formulate and solve complex engineering problems by applying the principles of engineering, science and mathematics. The ability to implement engineering design to produce solutions that meet the stated needs, taking into account public health, safety and well-being, as well as global, cultural, social, environmental and economic factors. The ability to communicate effectively with various audiences. The ability to recognize ethical and professional responsibilities in engineering situations and to make informed decisions that should take into consider the impact of engineering solutions in global, economic, environmental and social contexts. The ability to work effectively in a team to lead, collaborative and inclusive, set goals, plan tasks, and achieve goals. The ability to develop and conduct appropriate experiments, analyze and interpret data, and use engineering judgment to yield results. The ability to obtain and apply new information as needed using appropriate learning strategies. Ability to work professionally in mechanical system fields. Ability to work in the areas of thermal systems. The ability to apply the principles of engineering, basic science and mathematics (including multivariant calculus and differential equations). The ability to model, analyze, design and perform physical systems, components, or processes. Aerospace engineering is a four-year curriculum that prepares students for careers in the aerospace and astronautic industries, related technology industries, or graduate education. The curriculum was developed to highlight the basics of engineering, aviation issues and the integration of these foundations and subjects into the design of an aviation system. Engineering basics courses include materials, solid and fluid mechanics, thermodynamics, computer modeling, computer aided design, numerical analysis and controls. Courses covering aerospace engineering include aerodynamics, aerospace structures, flight mechanics, dynamics and control of spacecraft, and propulsion. Students complete the program by taking a two-quarters capstone design course that integrates all aviation training into the design, development and testing of an aerospace or astronaut vehicle or component. Throughout the program, students take laboratory courses that expose them to modern testing techniques, allowing them to understand complex engineering issues. The main objectives of the program are to provide students with a strong foundation on the basis of engineering; in-depth knowledge of key topics such as aerodynamics, propulsion, flight mechanics, orbital mechanics, space structures and materials, and the design and control of aviation systems in aerospace engineering; and is aware of the value of lifelong learning. BS degree in aerospace engineering, ABET, accredited by the Engineering Accreditation Commission. The program's training goals are: to provide our students with a strong technical education that will allow them to pursue successful careers as engineers, technology leaders and innovators. Preparing our students for rapid technological change with basic knowledge to ensure that they can advance their knowledge and further education in various disciplines throughout their professional careers. Preparing our students to communicate and work in teams, to deal with the impact of technology on our society and global issues in a knowledgeable and ethical way. Graduates of the AE program are expected to have the following: the ability to identify, formulate and solve complex engineering problems by applying the principles of engineering, science and mathematics. The ability to implement engineering design to produce solutions that meet global, cultural, social, stated needs as well as public health, safety and well-being, and economic factors. The ability to communicate effectively with various audiences. The ability to recognize ethical and professional responsibilities in engineering situations and to make informed decisions that should take into consider the impact of engineering solutions in global, economic, environmental and social contexts. The ability to work effectively in a team to lead, collaborative and inclusive, set goals, plan tasks, and achieve goals. The ability to develop and conduct appropriate experiments, analyze and interpret data, and use engineering judgment to yield results. The ability to obtain and apply new information as needed using appropriate learning strategies. Aerodynamics, space materials, structures, prop proprivity, flight mechanics and stability and control information. Knowledge of attitude determination and control, space structures, orbital mechanics and rocket propenics. The ability to integrate knowledge of key issues in the design of aerospace systems. It is a four-year curriculum with basic engineering courses in environmental engineering, mechanics, thermodynamics, physics, chemistry and mathematics. In the third and fourth years, there is an environmental engineering series, as well as more specialization in fluid mechanics and a wide selection of technical elective courses from both MAE and other departments. The core businesses of environmental engineering are surrounded by tools to develop technologies that will enable an understanding and awareness of the basic processes related to human industrial activities and environmental impacts, and to enable economic growth through the process of the next generation of engineers. Engineering mechanics includes the successful completion of seven MAE courses, including at least five upper department courses open to students who meet course prerea byes. Our courses provide a good introduction to engineering analysis and will be useful for non-engineering branches that want a background that can be used in professional communication with engineers. For students who want to become Engineers (EIT) in mechanical engineering by taking the basic exam in engineering (FE) exam, the following courses are recommended: MAE 101A-B-C, MAE 11, MAE 20, MAE 108, MAE 30A-B, MAE 170, MAE 131A, MAE 150. This UC San Diego Academic Senate policy does not confirm double majors and minors within engineering departments. The BS degree program in aerospace engineering is accredited ABET, The Engineering Accreditation Commission. The BS degree program in mechanical engineering is accredited Accreditation Commission for ABET, Engineering. Special course requirements for each master program are summarized in the tables section of the catalog. In addition to the required technical courses specifically mentioned, a proposed planning of humanities and social sciences courses (HSS) is distributed in the curriculum for students to use to meet university general educational requirements. To graduate, students are required to keep their overall grade average at least 2.0. Deviations from these study programs must be approved by the Licensing Affairs Committee before taking alternative courses. In addition, the selection of technical elective (TE) courses must obtain department approval before entering the course. In the aerospace engineering BS degree program and the mechanical engineering BS degree program, TE courses are limited to meet accreditation standards. Courses such as MAE 197 and 198 are not permitted as technical elective courses in fulfilling the main requirements at the top level. MAE 199 can only be used as a technical elective under restrictive conditions. The policy for these conditions can be obtained from the department's Student Affairs Office. Students with different academic preparations can change the programs of sub-departmental courses such as mathematics, physics and chemistry, but must apply to the department. Deviations are not recommended in the planning of MAE senior courses. The lowest department courses are offered more than once each year to give students some flexibility in their program planning. However, many MAE top-section courses are taught only once a year, and courses are planned to be consistent with the curriculum, as shown in the tables. Where possible, MAE offers large enrollment courses more than once each year. A temporary course program is available from the department each spring for the next academic year. For graduation, each student must meet the general educational course requirements set by the student's college and the basic requirements set by the department. Six colleges at UC San Diego require very different general education courses, and the number of such courses varies from one university to another. Each student should carefully choose their own college, taking into account the specific nature of the college and the breadth of general education. Each MAE program allows students to take humanities and social sciences (HSS) courses to meet university requirements. In the BS degree program in aerospace engineering and the Mechanical Engineering BS degree program, students must develop a program consisting of at least twenty-four units in the arts, humanities and social sciences, including subjects such as accounting, industrial management, finance or personnel management. However, it should be noted that some colleges need more than the twelve HSS courses specified in the curriculum tables. Accordingly, students at these colleges may take longer to graduate Four-year program. Students should consult their university to determine which HSS courses to take. All students are encouraged to take the Engineering Basics (FE) exam as the first step in obtaining a professional engineer (PE) license. Students who graduate from an accredited program can take the PE exam after a FE certificate and two years of work experience; Students graduating from an unann accredited program can take the PE exam after a FE certificate and four years of work experience. For more information, please contact your local Registration Board for professional engineers and land appraisers. The mechanical engineering program has a traditional four-year curriculum that includes mechanics, vibrations, thermodynamics, fluid flow, heat transfer, material, control theory and mechanical design. FALL KIS SPRING FIRST YEAR MATHEMATICS 20B MATHEMATICS 20C CHEM 6A PHYS 2A PHYS 2B HSS HSS MAE 3 HSS HSS HSS HSS SECOND YEAR MATH 20D MATHEMATICS 20D MATHEMATICS 20E PHYSICS 2C MAE 8 HSS MAE 20 MAE 30B HSS HSS HSS S MAE 131A Junior Year MAE

11 MAE 101A MAE 101B MAE 105 MAE 143A MAE 143B MAE 40 HSS MAE 170 MAE 107 MAE 160 or MAE 131B HSS Year Senior MAE 101C MAE 171A MAE The 156B MAE 150 MAE 156A TE TE HSS HSS TE CHEM 6AH CHEM 6A can be replaced. While fulfilling humanities and social sciences requirements (HSS), students must receive at least twenty-four units in the arts, humanities and social sciences, including subjects such as accounting, industry management, finance or personnel management. Twelve HSS courses are listed here; individual university requirements may be different. Technical elective (TE) courses must be senior or graduate courses selected with prior approval from engineering sciences, natural sciences or mathematics departments. For an up-to-date list of pre-approved TEEs, see the Student Affairs section at MAE. Specialization in Control and Robotics and specialization in Mechanical Engineering Control and Robotics are designed for students who want to understand the basics of control and optimization and the basics of robotic applications such as autonomous vehicles, biomedical technologies and snds of unmanned aerial vehicles. Students must complete all of the mechanical engineering requirements described above, and four of the five technical elective courses must be selected from the following list, including at least two courses marked with an asterisk (*): MAE 108. Probability and Statistical Methods in Mechanical and Environmental Engineering MAE 142. Dynamics and Control of Spacecraft* MAE 144. Embedded Control and Robotics* MAE 145. Robotics Planning and Forecasting* MAE 148. Introduction to Autonomous Vehicles MAE 180A. Spacecraft Guidance I* MAE 200. Checks* MAE 204. Robotics* SE 143A. Aerospace Structural Design I SE 143B. Aviation Design II Mechanical Engineering, Fluid Mechanics and Thermal Systems expertise is designed for students interested in the basics of thermodynamics, fluid mechanics, heat transfer and engineering applications. Students must complete all of the mechanical engineering requirements described above, and four of the five technical elective courses must be selected from the following list: MAE 101D. Intermediate Heat Transfer MAE 104. Aerodynamic MAE 110. Thermodynamic Systems MAE 113. Propulsing Mee 119 Basics. Introduction to Renewable Energy: Solar and Wind MAE 122. Flow and Transportation in the Vicinity MAE 201. Fluid Mechanics MAE 202. Thermal Processes BENG 103B. Bioengineering Mass Transfer or CENG 101C. Mass Transfer SIO 111. Ocean Waves SIO 172 Introduction. Atmospheric Physics SIO 173. Atmosphere and Climate Dynamics SIO 178. Specialization in Materials Science and Engineering Geophysical Fluid Dynamics Specialization in Mechanical Engineering Materials Science and Engineering Specialization in materials science and engineering, material selection in engineering, production and breakdown analysis criteria, nanomains and materials for biomedical, energy and electrical/magnetic/optical applications are designed for students interested in material basics and applications. Students must complete all of the mechanical engineering requirements described above, and four of the five technical elective courses must be selected from the list below. Only one of the courses marked with an asterisk (*) will be accepted for specialization, not both: MAE 130. Mechanical III: Vibrations One of the following two courses: MAE 131B. Solid Mechanics II Basics (MAE 160 ME if used to meet the great requirement) MAE 160. Mechanical Behavior of Materials (if used to meet the main requirement of MAE 131B ME) MAE 133. Methods of Sonlu Elements in Mechanical and Aerospace Engineering* MAE 165. Fatigue and Fault Analysis of Engineering Components MAE 166. Nanoma materials MAE 167. Wave Dynamics MAE 190. Biomains and Medical Devices NANO 134. Polymeric Materials (or MATS 257. Polymer Science and Engineering) NANO 148. Thermodynamics OF Materials NANO 158. Phase Transformations and Kinetic NANO 158L. Material Processing Laboratory NANO 161. Material Selection in Engineering NANO 174L. Mechanical Behavior Laboratory SE 131. Sonlu Elements Analysis* SE 142. Design of Composite Structures SE 163. Material Mechanics Specialization and Non-Destructive Evaluation Mechanical Engineering Is designed for students who want to gain expertise in the fields of mechanics of solid and soft materials and dynamics of material systems (e.g. bio-inspired systems and metamains). applications to engineering structures and devices, manufacturing, energy and biomedical engineering. Students can choose from a variety of mechanical, numerical modeling and materials science courses. Students must complete all of the mechanical engineering requirements described above, and four of the five technical elective courses must be selected from the following list, including both courses marked with an asterisk (*): MAE 130. Mechanical III: Vibrations* MAE 131B. Basics of Solid Mechanics II* MAE 133. Methods of Sonlu Elements in Mechanical and Aerospace Engineering MAE 160. Mechanical Behavior of Materials (if used to meet the main requirement of MAE 131B ME) MAE 165. Fatigue and Fault Analysis of Engineering Components MAE 166. Nanoma materials MAE 167. Wave Dynamics MAE 190. Biomains and Medical Devices NANO 134. Polymeric Materials (or MATS 257. Polymer Science and Engineering) NANO 148. Thermodynamics OF Materials NANO 158. Phase Transformations and Kinetic NANO 158L. Material Processing Laboratory NANO 161. Material Selection in Engineering NANO 174L. Mechanical Behavior Laboratory SE 142. Design of Composite Structures SE 163. Non-Destructive Assessment Mechanical Engineering With Expertise in Renewable Energy and Environmental Flows Specialization in renewable energy and environmental currents is designed for students interested in technologies that enable sustainable growth, flow and transportation in the atmosphere, ocean and groundwater, and renewable energy solutions for the electrical energy system. Students can choose from a variety of courses in oceanography, chemistry and various engineering disciplines. Students must complete all of the mechanical engineering requirements described above and four of the five technical elective courses must be selected from the following list, including both courses marked with an asterisk (*): Core MAE 119, Introduction to Renewable Energy: Solar and Wind* MAE 122. Flow and Transportation in The Environment* Environmental Currents MAE 123. Porous Media SIO 111 Transportation Introduction. Ocean Wavesio 171 entry. Introduction to Physical Oceanography SIO 172. Atmospheric Physics SIO 173. Atmosphere and Climate Dynamics SIO 175. Analysis of Oceanic and Atmospheric Data SIO 176. Observational Physical Oceanography SIO 178. Geophysical Fluid Dynamics SIO 179. Ocean Instruments and Sensors Energy MAE 101D. Intermediate Heat Transfer MAE 108. Probability and Statistical Methods in Mechanical and Environmental Engineering MAE 110. Thermodynamic Systems MAE 120. Introduction to Nuclear Power MAE 124. Environmental Challenges: Science and Solutions MAE 125. Building Energy Efficiency MAE 206. Energy Systems ECE 121A. Power Systems Analysis and Basics ECE 121B. Energy Conversion ECE 125A. Power Electronics Input I ECE 125B. Input Power Electronics II SIO 117. Global Warming Environmental Chemistry CENG 100 Physical Foundation. Material and Energy Balances CHEM 171. Environmental Chemistry I CHEM 172. Environmental Chemistry II CHEM 173. Atmospheric Chemistry ESYS 101. Environmental Biology SIO 141/CHEM 174. Chemical Principles of Marine Systems SIO 143. Ocean Acidification SIO 174. Most CENG and CHEM courses in Atmosphere and Chemistry of the Oceans (with petition) A four-year curriculum that begins with basic engineering courses in aerospace engineering program mechanics, thermodynamics, materials, solid mechanics, fluid mechanics and heat transfer. Additional courses such as aviation structures, aerodynamics, flight mechanics, prop prope force, controls and aviation design are required. Graduates of this program enter the aviation industry to enter graduate school or develop aircraft and spacecraft, but they may also find employment in other areas that use similar technologies such as mechanical and energy-related fields. Examples include the manufacture of automobiles, marine and sporting goods. FALL KIS SPRING FIRST YEAR MATHEMATICS 20B MATHEMATICS 20C MAE 2 PHYSICS 2A PHYSICS 2B CHEM 6A HSS HSS HSS HSS Second Year MATHEMATICS 20D MATHEMATICS 18 MATHEMATICS 2 0E PHYS 2C and 2CL MAE 8 MAE 131A MAE 21 MAE 30A MAE 30B HSS HSS HSS Junior Year MAE 105 MAE 101A MAE 101B MAE 11 MAE 143A MAE 143B MAE 180A SE 160A MAE 170 MAE 107 HSS SE 160B Senior Year MAE 101C MAE 155A MAE 155B MAE 104 MAE 142 HSS HSS MAE 175A TE HSS MAE 113 TE CHEM 6AH CHEM 6A can be replaced. While fulfilling humanities and social sciences (HSS) requirements, students must receive at least twenty-four units in the arts, humanities and social sciences, including subjects such as accounting, industry management, finance or personnel management. Twelve HSS courses are listed here; individual university requirements may be different. Technical elective (TE) courses must be senior or graduate courses selected with prior approval from engineering sciences, natural sciences or mathematics departments. For an up-to-date list of pre-approved TEEs, see the Student Affairs section at MAE. The BS undergraduate program in environmental engineering is a four-year curriculum with basic engineering courses in mechanics, thermodynamics, physics, chemistry and mathematics. In the third and fourth year, an environmental engineering series, as well as more expertise in fluid mechanics and a wide range of technical elective (TE) courses are offered, both within MAE and from other departments. The following courses are required for the department of environmental engineering: Subsea MAE 3, 8, 11, 30A-B CHEM 6A-B-C MATHEMATICS 20A-E and MATHEMATICS 18 (formerly 20F) PHYS 2A-B-C Upper-Division MAE 101A-C, 105, 107, 108, 119, 122, 123, 126A-B, 170 Restricted Elective sylla so: four upper sections will be selected or through the department. There should be an SIO course. CHEM 171 ESYS 101 CENG 100 Recommended Program FALL SPRING SPRING FIRST YEAR MATHEMATICS 20B MATHEMATICS 20C CHEM 6A PHYS 2A PHYS 2B HSS CHEM 6B CHEM 6C HSS HSS HSS HSS HSS HSS HSS HSS HSS HSS HSS HSS HSS SSS Second Class MATHEMATICS 20D MATHEMATICS 18 MATHEMATICS 20E PHYSICS 2C MAE 30A MAE 101 MAE 8 MAE 30B MAE 3 HSS HSS Junior Year CENG 1 00MAE 101A MAE 101B MAE 105 MAE 119 MAE 170 MAE 107 MAE 11 TE CHEM 171 HSS HSS Senior Year MAE 101C MAE 1 26A MAE 126B MAE 122 MAE 123 TE HSS HSS HSS HSS HSS Humanities and Social Sciences (HSS) courses should be selected to meet the general educational requirements of colleges. Twelve HSS courses are listed here; individual university requirements may be different. Technical electives (four): All technical elective courses must be from the upper section and one or more from the SIO department. For an up-to-date list of pre-approved TEs, see the Office of Student Affairs at MAE. Degrees in mechanical, aerospace and environmental engineering are limited. Due to the intense student interest in these branches and the limited resources available to meet this demand, the maintenance of a high-quality program required limiting registrations. Freshmen who succeeded in high school and declared mechanical, aerospace or environmental engineering in their UC San Diego application are directly accepted into these branches. Registration in mechanical, aerospace and environmental engineering is limited due to high demand and limited resources. Students will be notified by the UC San Diego Admissions Office whether they are accepted into the branches of their selection based on admission criteria and their ranking in the application pool. Applicants wishing to be accepted as transport students will be evaluated to be admitted to the machinery, aerospace and environmental engineering branches. Registration in mechanical, aerospace and environmental engineering is limited due to high demand and limited resources. Transplant students who succeed in public universities, especially math, physics and chemistry courses, will have the strongest advantage. Students who have taken equivalent courses elsewhere can request transfer credits for the department's main requirements. To receive transfer credits for MAE courses, submit a petition through MAE's online petition portal at . Transfer equivalences for mathematics, chemistry and physics are determined by the relevant departments. The Undergraduate Student Petition must be submitted to each department where you request a transfer loan. For the right to transition to mechanical, aerospace or environmental engineering, you must complete the following screening courses: Calculus Science and Engineering (MATH 20A) Mathematics II-Science and Engineering (MATH 20B) Calculus and Analytical Geometry (MATH 20C) Differential Equations (MATH 20D) Linear Algebra (MATH 18 or 20F) Complete with laboratory experience calculus-based physics series (PHYS 2A, B and C) Continuous students wishing to become a department (mechanical, aerospace and environmental engineering) with CHEM 6A Cover must apply to the department before or before the deadline. Applications will be accepted once a year. Please refer to section website for details. Ongoing students wishing to be considered must meet the following minimum requirements: completing a period of at least one year/three quarters residing at UC San Diego, completing all screening courses for the requested master applications, will be sorted according to the student's grades on the application date. Students will be allowed to enter the main class according to a ranking system up to a number. Students applying after the sixth academic quarter at UC San Diego will not be considered. When the department is accepted, students should consult the catalog or MAE website ( ) for the learning program and consult their undergraduate advisor if they have questions. The program plan can be reviewed in subsequent years, but curriculum revisions require approval by the undergraduate advisor or the Licensing Affairs Committee. Because some course and/or curriculum changes can be made each year, students are required to check UC San Diego emails for notifications and consult the department's undergraduate advisors regularly. Some MAE courses are only offered once a year and should therefore be taken in the recommended order. If the courses are taken unusually, it may not always be possible to enroll in the courses as desired or as required. In this case, students should get department advice immediately. When a student devises from the order of courses specified for each curriculum in this catalogue, it may be impossible to complete a MAE master's education within the normal four-year period. MAE students are recommended to talk to department consultants at least quarterly. In addition to the recommendations offered through the Office of Student Affairs, MAE faculty members may also be offered programmed or technical advice. Variations or exceptions to any program or course requirement are only possible if a petition is approved by the MAE Licensing Affairs Committee before such courses are taken. Petitions are made through the online petition portal at . MAE students can receive MAE 199, Independent Undergraduate Education under the guidance of a MAE faculty member. This course is taken selectively on a P/NP-based course. However, under very restrictive conditions, A parent section for the major can be used to meet the technical elective course requirement. Students interested in this option should identify an MAE faculty member they want to work with and recommend a two-quarters research or study topic. After the faculty member has received approval on the subject and scope of the study, the student is required to submit a Special Studies Course form (each quarter) and MAE 199 as a Technical Elective Contract form to the Undergraduate Affairs Committee. These forms on the MAE website must be filled in, approved and processed before the insert/release date. When using 199s as TE, there is a minimum requirement of 3.0 gpa. Detailed policy and necessary forms can be obtained from the Directorate of Student Affairs. Office.