

B.S. in Mechanical Engineering (2016 - 2018 Catalog)

Student _____

Advisor _____

UTD ID _____

NET ID _____ Date of Review _____

MAJOR PREPARATORY REQUIREMENTS

| LD | UD | NTS | COURSE TITLE | COURSE # | GRADE | SEM | INFO |
|----|----|-------|--|-------------------|-------|-----|------|
| 1 | | 1,7 | Intro to Engineering and CS | ECS 1100 | | | |
| 1 | | 1 | Intro to Mechanical Engineering I | MECH 1100 | | | |
| 2 | | 1 | Intro to Mechanical Engineering II | MECH 1208 | | | |
| 3 | | 1,4 | Intro to Programming | CS 1325 | | | |
| 3 | | 1 | Statics | MECH 2310 | | | |
| 3 | | 1 | Mechanics of Materials | MECH 2320 | | | |
| 1 | | 1 | Mechanics of Materials Laboratory | MECH 2120 | | | |
| 3 | | 1 | Dynamics | MECH 2330 | | | |
| 3 | | 1 | Linear Algebra for Engineers | ENGR 2300 | | | |
| 4 | | 1,2,3 | Calculus I | Math 2414 or 2417 | | | |
| 4 | | 1,2,3 | Calculus II | Math 2415 or 2419 | | | |
| 4 | | 1 | Differential Equations w/ Applications | Math 2420 | | | |
| 3 | | 1,2 | Mechanics | Phys 2325 | | | |
| 1 | | 1,2 | Physics Laboratory I | Phys 2125 | | | |
| 3 | | 1,2 | Electromagnetism and Waves | Phys 2326 | | | |
| 1 | | 1 | Physics Laboratory II | Phys 2126 | | | |
| 3 | | 1 | General Chemistry I | Chem 1311 | | | |
| 1 | | 1 | General Chemistry Lab I | Chem 1111 | | | |
| 44 | | | | | | | |

MAJOR CORE REQUIREMENTS*

(*Courses in this block used to calculate major GPA)

| | | | | | | | |
|--|----|-----|---|------------------|--|--|--|
| | 3 | 1 | Advanced Engineering Math | ENGR 3300* | | | |
| | 3 | 1 | Computer Aided Design | MECH 3305* | | | |
| | 1 | 1 | Computer Aided Design Laboratory | MECH 3105* | | | |
| | 3 | 1 | Thermodynamics | MECH 3310* | | | |
| | 3 | 1 | Fluid Mechanics | MECH 3315* | | | |
| | 1 | 1 | Fluid Mechanics Laboratory | MECH 3115* | | | |
| | 3 | 1 | Heat Transfer | MECH 3320* | | | |
| | 1 | 1 | Heat Transfer Laboratory | MECH 3120* | | | |
| | 3 | 1 | Probability Theory & Statistics | ENGR 3341* | | | |
| | 3 | 1 | Kinematics and Dynamics of Mechanical Systems | MECH 3350* | | | |
| | 1 | 1 | Kinematics and Dynamics Laboratory | MECH 3150* | | | |
| | 3 | 1 | Design of Mechanical Systems | MECH 3351* | | | |
| | 3 | 1 | Systems and Controls | MECH 4310* | | | |
| | 1 | 1 | Systems and Controls Laboratory | MECH 4110* | | | |
| | 3 | 1 | Senior Design Project I | MECH 4381* | | | |
| | 3 | 1 | Senior Design Project II | MECH 4382* | | | |
| | 3 | 1 | MECH Prescribed Elective | MECH 33XX*/43XX* | | | |
| | 3 | 1 | MECH Prescribed Elective | MECH 33XX*/43XX* | | | |
| | 3 | 1 | MECH Prescribed Elective | MECH 33XX*/43XX* | | | |
| | 3 | 1 | MECH Prescribed Elective | MECH 33XX*/43XX* | | | |
| | 3 | 1,2 | Social Issues & Ethics in CS & E | ECS 3361* | | | |
| | 3 | 1,2 | Prof & Tech Communication | ECS 3390* | | | |
| | 56 | | | | | | |

REMAINING CORE CURRICULUM**

| | | | | | | | |
|----|--|---|----------------------------------|-----------|--|--|--|
| 3 | | 1 | Rhetoric | Rhet 1302 | | | |
| 3 | | | American National Government | Govt 2305 | | | |
| 3 | | | State and Local Government | Govt 2306 | | | |
| 3 | | 4 | US History Survey to Civil War | Hist 1301 | | | |
| 3 | | 4 | US History Survey from Civil War | Hist 1302 | | | |
| 3 | | 4 | Exploration of the Humanities | Huma 1301 | | | |
| 3 | | 4 | Exploration of the Arts | Arts 1301 | | | |
| 21 | | | | | | | |

ELECTIVES (6 Hours - Requires Approval from Advisor)

| | | | | | | | |
|----|----|-----|--------------------------|-----------|--|--|---|
| 3 | | 5,6 | Free Elective | | | | |
| 3 | | 5,6 | Free Elective | | | | |
| 0 | | 7 | Freshmen Seminar | UNIV 1010 | | | |
| 6 | | | | | | | |
| 71 | 56 | | Total Hours _____ | | | | 127 hours required for graduation. Must include minimum 51 hours as Upper Division.*** |

NOTES

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| 1. Major requirement. Must earn C- or better to receive credit. | 2. Course meets both major and CORE requirement. |
| 3. Must take Math 2413/2414/2415 or Math 2417/2419. | 4. Other course options available. See advisor for details. |
| 5. A maximum of 3 PHIN credits is allowed on any UTD degree plan. | 6. Lower or upper division courses may count as free electives. |
| 7. Incoming freshmen (FTIC) must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshmen seminar course. | |
| **All students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020. | |
| *** Must have a minimum cumulative 2.0 GPA in all UTD coursework and a cumulative 2.0 GPA in all Major requirements to graduate. Students must also complete 45 hours in residence and complete 24 of the last 30 hours at UTD. No off-campus courses in the last semester allowed. | |