Grove City College Status Sheet

Status Sheets are provided as a convenience for the student and may be helpful for recording completed courses. However, the College Bulletin is the controlling authority on all requirements. Questions should be directed to your academic advisor or the Registrar.

B.S. in Mechanical Engineering Entering in 2019

(WI)=Writing Intensive, (SI)=Speaking Intensive, (IL)=Information Literacy courses.

(REVISED 06-01-19)

| | Name: | | _ | | | | |
|--|---|-----------------------|-----------------|---------------------------------------|-----|------------|------------|
| TOTAL HOURS REQUIRED FOR THIS DEGREE 128 HOURS Ninimum CQPA and MQPA required for graduation 200 General Education + Elective Requirements 28 HOURS Ninimum CQPA and MQPA required for graduation 200 GENERAL EDUCATION REQUIREMENTS C. Sem Taken 001 HOURS 001 HOURS GENERAL EDUCATION REQUIREMENTS C. Sem Taken 004 HOURS 00 001 HOURS MUMA 102 Circuit of the Bibling Hearing Graphics C. Sem Taken 004 HOURS MUMA 202 Collation and Iteration 3 Important Semicing Graphics 2 Important Semicing Graphics 2 Important Semicing Graphics 2 Important Semicing Graphics 3 Important Semicing Semicing 3 Important Semicing 3 <td< th=""><th>ID#</th><th></th><th>Date:</th><th></th><th></th><th></th><th></th></td<> | ID# | | Date: | | | | |
| MCPA Courses MCPA Course MCPA Courses MCPA Courses </th <th>Year of Anticipated Graduation:</th> <th></th> <th>Advisor:</th> <th></th> <th></th> <th></th> <th></th> | Year of Anticipated Graduation: | | Advisor: | | | | |
| MCPA Courses MCPA Coursea MCPA Courses MCPA Courses< | TOTAL HOURS REQUIRED FOR THIS DEGREE | 128 HOURS | Minimum CO | QPA and MQPA required for graduati | on | | 2.00 |
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| Cr. Sem. Taken Gride Cr. Sem. Taken Gride HUMA 102 Over and the Biblical Revelation (1): 3 | | | MEGUANICAL | | | | |
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| HUMA 22 Civilization and therature 3 | | | MECE 120 | Numerical Comp. for Mech. Engr. | 3 | | |
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| Choose ne course from the following: MECC 311 Metanisis 3 Choose one course from the following: MECC 312 Sterss Analysis/Design of Mach. Comp. 3 SSFT 210 Science & Religion 3 MECC 313 Metchanics 3 FOUNDATIONS OF THE SOCIAL SCIENCES 2 MECC 312 Science & Religion 3 MECC 313 MECC 314 MECC 316 System Dynamics 3 MECC 313 MECC 314 MECC 314 MECC 314 MECC 314 MECC 314 MECC 314 MECC 316 Science 111 MECC 316 Science 111 MECC 316 Science 111 MECC 316 Science 111 MECC 316 Science 1111 MECC 316 Science 111 | WRIT 101 Found. of Academic Discourse (IL) 3 | | MECE 251 | Mechanical Systems Lab I (IL) | 1 | | |
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| PHIL 243 Science & Religion MECE 336 SystP 210 Science & Religion SSFT 211 Science & Religion 2 | COMP 205/SSFT 205 Ethics, Faith, and the Conscious Mind | | MECE 312 | Stress Analysis/Design of Mach. Comp. | 3 | | |
| SSF1210 Science, Religion 2 FOUNDATIONS OF THE SOCIAL SCIENCES 3 ECON 120 Foundations of Economics PSYC 101 FOUNDATIONS OF THE SOCIAL SCIENCES SOCI 101 Foundations of Psychology HIST 120 Foundations of Flinktoy PSYC 200 Creace Science Social science SOCI 101 PUSS 101 Foundations of Political Science SOCI 101 Foundations of Political Science | PHIL 243 Science and the Human: Inquiry, Design, & the Person | | MECE 316 | System Dynamics | 3 | | |
| SSFT 212 Science, Faih, Technology, & Origins 2 MECE 326 Heat Transfer 3 FOUNDATIONS OF THE SOCIAL SCIENCES 2 MECE 326 Instrumentation Lab (WI) 1 Choose one course from the following: ECC 112 Foundations of Foundations of Foliconomics PSYC 200 Cross-cultural Psychology HIST 120 Foundations of Education SOCI 101 Foundations of Sciolaves SOCI 101 Foundations of Sciolaves 3 VIST 204 HistPhil Foundations of Folicoal Science SOCI 101 Foundations of Sciolaves 3 Select antinium of 3 credit hours for each system area: 13 HOURS Staffed by major related requirements. OHOURS Atleast 6 hours must be 400 level classes with a maximum of 4 hrs from one and two credit courses. MECE 303 Computer-Aided Manufacturing 3 MATURAL SCIENCES (with tabs) 0 OHOURS MECE 410 Kinematics A foundational Vibrations 3 Staffed by major related requirements. PHYSICAL EDUCATION 1 MECE 410 Kinematics A foundation foundations of Mach. 3 MECE 410 Chements for Engineering 3 MECE 410 Kinematics A foundations of Mach. 3 MECE 410 Ki | SSFT 210 Science & Religion | | MECE 325 | Fluid Mechanics | 3 | | |
| 2 MECE 351 Instrumentation Lab (WI) 1 FOUNDATIONS OF THE SOCIAL SCIENCES | SSFT 212 Science, Faith, Technology, & Origins | | MECE 326 | Heat Transfer | 3 | | |
| FOUNDATIONS OF THE SOCIAL SCIENCES 3 HOURS Choose one course from the following: SCIM 120 Foundations of Extensions PSYC 101 Foundations of Psychology HIST 120 Foundations of History PSYC 200 Cross-Cultural Psychology MECE 401 Capstone Design La 1 1 HIST 120 Foundations of Foundations of Social Work SOCI 101 Foundations of Social Work 3 1 PUSD 204 Hist/Fub Foundations of Folicical Science SOCIA 101 Found of Social Work 3 1 1 1 1 QUANTITATIVEL.GOGICAL REASONING 3 0 HOURS 3 0 HOURS MECE 303 Computer-Aided Manufacturing 3 1 | | | MECE 351 | Instrumentation Lab (WI) | 1 | | |
| Chose one course from the following: MECE 401 Capstone Design 1 3 ECON 120 Foundations of Hotory PSYC 101 Foundations of Psychology MECEROB0 451 Capstone Design Lab 1 1 HIST 121 Foundations of Potitical Science SOCI 101 Foundations of Sociology 3 | FOUNDATIONS OF THE SOCIAL SCIENCES | 3 HOURS | MECE 352 | | 1 | | |
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| HIST 120 Foundations of History PSYC 200 Cross-Cultural Psychology MECE AROBO 45: Capstone Design Lab II (SI) 3 | 5 | ons of Psychology | | | 1 | | |
| HIST 141 World Geography SOCI 101 Foundations of Sociology Select a minimum of 3 credit hours from each system area: 13 HOURS VIST 204 Hist/Phil Foundations of Education SOCI 103 Found. of Cultural Anthr. SOCI 103 Found. of Social Work At least 6 hours must be 400 level classes with a maximum of 4 hrs from one and two credit courses. QUANTITATIVEL/OGICAL REASONING 0 HOURS MECE 430 Special Mechancial Engineering Topics 1-4 Statisfied by major-related requirements. 0 HOURS MECE 430 Special Mechancial Engineering Topics 1-4 PHYSICAL EDUCATION 1 MECE 440 Multical Science 3 3 PHYSICAL EDUCATION 1 MECE 440 Multical Science 3 3 PHYSICAL EDUCATION 1 MECE 440 Multical Engineering Topics 3 3 PHYSICAL EDUCATION 1 MECE 440 Multical Engineering Topics 3 3 3 PHYSICAL EDUCATION 1 MECE 440 Multical Engineering Topics 3 3 3 3 RELET 210 Engineering Topics 1-4 MECE 441 Multical Engineering Topics 3 3 3 3 3 3 3 3 3 3 3 3 3 < | | , ,, | | | 3 | | |
| HIST 204 Hist/Phil Foundations of Education SOCI 103 Foundations of Political Science SOCW 101 Foundations of Political Science SOCW 101 Foundations of Political Science SOCW 101 Foundations of Political Science MECE 303 Computer-Aided Manufacturing 3 | | , ,, | | | : | | - 13 HOURS |
| 3 MECE 303 Computer-Aided Manufacturing 3 QUANTITATIVE/LOGICAL requirements. 0 HOURS Special Mechanical Engineering Topics 1.4 NATURAL SCIENCES (with labs) 0 HOURS MECE 407 Control Systems 3 Satisfied by major-related requirements. MECE 400 Kinematics & Dynamics of Mach. 3 PHYSICAL EDUCATION 1 HOURS MECE 410 Kinematics & Dynamics of Mach. 3 GENERAL ELECTIVES 1 HOURS MECE 410 Kinematics & Dynamics of Mach. 3 GENERAL ELECTIVES 4 HOURS MECE 418 Human-Powered Vehicle Design 3 MECE 428 Biomechanics 3 MECE 428 Biomechanics 3 MECE 420 Chemistry for Engineering 3 MECE 428 Biomechanical Engineering 1.3 ROBO 301 Introduction to Robotics 3 MECE 428 Mechanical Engineering Topics 1.4 MECE 410 Electrores: MECE 428 Mechanical Engineering Topics 1.3 MECE 428 ROBO 301 Introduction to Robotics 3 MECE 421 | o <i>,</i> | 0, | | | | | |
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| QUANTITATIVE/LOGICAL REASONING 0 HOURS Satisfied by major-related requirements. 0 HOURS MECE 410 Kinematics & Dynamics of Mach. PHYSICAL EDUCATION 1 GENERAL ELECTIVES Hauth/Single GENERAL ELECTIVES 4 HOURS MECE 428 Biomechanics 3 MAJOR-RELATED REQUIREMENTS 39-40 HOURS MAJOR-RELATED REQUIREMENTS 39-40 HOURS MECE 410 Engineering Topics 1.4 ENGR 30 Chemistry for Engineering 3 CHEM 105 Chemistry for Engineering 3 ENGR 274 Math Methods in Engineering 3 ENGR 274 Math Methods in Engineering 3 ENGR 274 Math Methods in Engineering 3 Math/Science Elective: Choose one course from ASTR 206, 207; BIOL 101, 102; CHEM 102, 227; ENGR 230 Separation Processes | 3 | | | | 3 | | |
| Satisfied by major-related requirements. 0 HOURS MCEC 407 Control Systems 3 | QUANTITATIVE/LOGICAL REASONING | 0 HOURS | | | | | |
| NATURAL SCIENCES (with labs) 0 HOURS Satisfied by major-related requirements. MECE 408 Mechanical Vibrations 3 | | ••• | | | | | |
| Satisfied by major-related requirements. HOURS PHYSE 100 Healthful Living 1 GENERAL ELECTIVES 4 HOURS MECE 410 Kinematics & Dynamics of Mach. 3 GENERAL ELECTIVES 4 HOURS MECE 418 Human-Powered Vehicle Design 3 MECE 418 Human-Powered Vehicle Design 3 MECE 418 Human-Powered Vehicle Design 1.3 MECE 418 Human-Powered Vehicle Design 3 MAJOR-RELATED REQUIREMENTS 8000 01 Introduction to Robotics 3 CHEM 105 Chemistry for Engineering 3 3 3 PINS 106 Introduction to Engineering 3 3 3 ENGR 201 Electrical Engineering 3 3 3 ENGR 217 Math Methods in Engineering 3 3 3 ENGR 2274 Math Methods in Engineering 3 3 3 MATH 161 Calculus I 4 MECE 2103 Separation Processes 3 MATH 161 Calculus II 4 MECE 231 Separation Processes 3 3 <t< td=""><td></td><td> 0 HOURS</td><td></td><td></td><td></td><td></td><td></td></t<> | | 0 HOURS | | | | | |
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| PHYE 100 Healthful Living 1 | | 1 HOURS | | , | | | |
| MECE 498 Honors in Mechanical Engineering 1-3 MAJOR-RELATED REQUIREMENTS Second Engineering Topics 1-3 MAJOR-RELATED REQUIREMENTS 39-40 HOURS MECE 321 MAJOR-RELATED REQUIREMENTS 4 MECE 321 MAJOR-RELATED REQUIREMENTS 3 | | | | , | | | |
| MECE 498 Honors in Mechanical Engineering 1-3 MAJOR-RELATED REQUIREMENTS Second Engineering Topics 1-3 MAJOR-RELATED REQUIREMENTS 39-40 HOURS MECE 321 MAJOR-RELATED REQUIREMENTS 4 MECE 321 MAJOR-RELATED REQUIREMENTS 3 | GENERAL ELECTIVES | 4 HOURS | | o | | | |
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| MAJOR-RELATED REQUIREMENTS | | | | | | | |
| THERMAL SYSTEMS ELECTIVES: MAJOR-RELATED REQUIREMENTS 39-40 HOURS MECE 321 Advanced Thermodynamics 3 CHEM 105 Chemistry for Engineering 3 MECE 321 Advanced Thermodynamics 3 ELEE 210 Electrical Engineering 3 MECE 391 Special Mechancial Engineering Topics 1-4 ENGR 156 Introduction to Engineering 2 MECE 416 Survey of Renewable Energy Systems 3 ENGR 274 Math Methods in Engineering 3 MECE 4211 Applied Fluid Mechanics 3 ENGR 402 Engineering Economy 1 MECE 499 Honors in Mechanical Engineering 1-3 Math/Science Elective: Choose one course from ASTR 206, 207; BIOL 101,102; CHEM 102, 227, 241, 345; MATH 210, 213, 222, 331; PHYS 234, or 402. MECE 400/360/460** Independent Study 1-3 MATH 161 Calculus I 4 MECE 270/370/470** Independent Research 1-3 MATH 261 Calculus II 4 MECE 392 Special Mechanical Engineering Topics 1-4 MATH 262 Differential Equations 3 ENGR 301 Ethics in Engineering Topics 1-4 MATH 262 | | | | | | | |
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| ELEE 210 Electrical Engineering 3 MECE 414 Principles of HVAC 3 | | | | | | | |
| ENGR 156 Introduction to Engineering 2 MECE 416 Survey of Renewable Energy Systems 3 <td>, , , , , , , , , , , , , , , , , , , ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | , | | | | | | |
| ENGR 274 Math Methods in Engineering 3 MECE 421 Applied Fluid Mechanics 3 ENGR 402 Engineering Economy 1 MECE 421 Applied Fluid Mechanics 3 | | | | • | | | |
| ENGR 402 Engineering Economy 1 MECE 499 Honors in Mechanical Engineering 1-3 Math/Science Elective: Choose one course from ASTR 206, 207; BIOL 101,102; CHEM 102, 227, 241, 345; MATH 210, 213, 222, 331; PHYS 234, or 402. ENGR 320 Separation Processes 3 MATH 161 Calculus I 4 MECE 260/360/460** Independent Study 1-3 MATH 162 Calculus II 4 MECE 331 Engr. Mgt. & Cross-Cultural Comm 3 MATH 261 Calculus III 4 MECE 392 Special Mechanical Engineering and Robotics 1-4 MATH 262 Differential Equations 3 ENGR 301 Ethics in Engineering Topics 1-4 PHYS 101 General Physics I 4 ENGR 392 Special Engineering Topics 1-4 | 8 8 | | | , , , | | | |
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| 241, 345; MATH 210, 213, 222, 331; PHYS 234, or 402. MECHANICAL OR THERMAL SYSTEMS ELECTIVES: 3 or 4 MECE 260/360/460*** Independent Study 1-3 MATH 161 Calculus I 4 MECE 270/370/470*** Independent Research 1-3 MATH 162 Calculus II 4 MECE 331 Engr. Mgt. & Cross-Cultural Comm 3 MATH 261 Calculus III 4 MECE 392 Special Mechanical Engineering Topics 1-4 MATH 262 Differential Equations 3 ENGR 301 Ethics in Engineering and Robotics 1 PHYS 101 General Physics I 4 ENGR 392 Special Engineering Topics 1-4 | | 102. CHEM 102 227 | | \$ | | | |
| 3 or 4MECE 260/360/460***Independent Study1-3MATH 161Calculus I4MECE 270/370/470***Independent Research1-3MATH 162Calculus II4MECE 331Engr. Mgt. & Cross-Cultural Comm3MATH 261Calculus III4MECE 392Special Mechanical Engineering Topics1-4MATH 262Differential Equations3ENGR 301Ethics in Engineering and Robotics1PHYS 101General Physics I4ENGR 392Special Engineering Topics1-4 | | 102, UTILINI TUZ, ZZI | | 1 | 5 | | |
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| MATH 162 Calculus II 4 MECE 331 Engr. Mgt. & Cross-Cultural Comm 3 MATH 261 Calculus III 4 MECE 392 Special Mechanical Engineering Topics 1-4 MATH 262 Differential Equations 3 ENGR 301 Ethics in Engineering and Robotics 1 PHYS 101 General Physics I 4 ENGR 392 Special Engineering Topics 1-4 | MATU 404 Oslavka I | | | . , | | | |
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* A combined total of up to three credit hours for independent study, independent research, and honors courses can be applied towards the mechanical engineering elective requirement.

SUGGESTED FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

| <u>Fall</u> | <u>Credits</u> |
|----------------------------|----------------|
| Chemistry 105 | 4 |
| Mathematics 161 | 4 |
| Mechanical Engineering 107 | 2 |
| Mechanical Engineering 109 | 2 |
| Humanities 102 | 3 |
| Physical Education 100 | <u>1</u> |
| - | 16 |

| Fall | Credits |
|----------------------------|---------|
| Mathematics 261 | 4 |
| Mechanical Engineering 201 | 3 |
| Mechanical Engineering 211 | 3 |
| Mechanical Engineering 251 | 1 |
| Physics 102. | 4 |
| SSFT course* | 2 |
| | 17 |

| Fall | Credits |
|----------------------------|----------|
| Mechanical Engineering 311 | 3 |
| Mechanical Engineering 325 | 3 |
| Mechanical Engineering 351 | 1 |
| Math/Science Elective* | 3 |
| Engineering 274 | 3 |
| Humanities 200* | <u>3</u> |
| | 16 |

| Fall | Credits |
|--|----------|
| Mechanical Engineering 401 | 3 |
| Mechanical Engineering or Robotics 451 | 1 |
| Mechanical Engineering Electives* | 9 |
| Humanities 301* | <u>3</u> |
| | 16 |

Freshman Year

| <u>Spring</u> | <u>Credits</u> |
|----------------------------|----------------|
| Engineering 156 | 2 |
| Mathematics 162 | 4 |
| Mechanical Engineering 120 | 3 |
| Physics 101 | 4 |
| Writing 101 | <u>3</u> |
| | 16 |

Sophomore Year

| Spring | <u>Credits</u> |
|----------------------------|----------------|
| Mathematics 262 | 3 |
| Mechanical Engineering 210 | 3 |
| Mechanical Engineering 212 | 3 |
| Mechanical Engineering 214 | 3 |
| Mechanical Engineering 252 | 1 |
| Humanities 202* | <u>3</u> |
| | 16 |

Junior Year

| Spring | <u>Credits</u> |
|---------------------------------------|----------------|
| Mechanical Engineering 312 | 3 |
| Mechanical Engineering 316 | 3 |
| Mechanical Engineering 326 | 3 |
| Mechanical Engineering 352 | 1 |
| Electrical Engineering 210 | 3 |
| Foundations of Social Science course* | <u>3</u> |
| | 16 |

Senior Year

| Spring | <u>Credits</u> |
|--|----------------|
| Mechanical Engineering or Robotics 452 | 3 |
| Mechanical Engineering Electives* | 4 |
| Engineering 402 | 1 |
| Humanities 303* | 3 |
| General Elective* | <u>4</u> |
| | 15 |

*Marked courses are not restricted to the time slots as shown in this suggested schedule.

NOTE: Scheduling time conflicts may occur for students who deviate from the above plan. Any exception to the classes listed on the other side of the page must have prior written approval of the department chairman.

TOTAL CREDIT HOURS REQUIRED = 128