MECHANICAL ENGINEERING

SAMPLE 5 YEAR PLAN

| MECE-110 Thermodynamics 3 EEEE 281 Circuits 3 MECE-203 Strengths of Materials 3 MECE-205 Dynamics 3 3 MECE-204 Strengths of Materials Lab 1 MECE-205 Fluid Mechanics 3 MECE-210 MECE-305 Mechanics 3 MECE-306 Materials Science 3 MECE-306 Materials Science 3 MECE-306 Materials Science 3 MECE-306 Materials Science 3 MECE-306 Meterials Science 3 MECE-307 Mece-308 Mece-309 Mece-309 Mece-309 Mece-309 Mece-309 Mece-300 | A Block | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|------------------------------|-------|----|----------|----------------------------------|-------|----|--|--|
| MECE-104 Engineering Design Tools 3 MECE-117 Intro to Programming for Engineers 3 MATH-181 Calculus 4 MATH-182 Calculus 4 MATH-182 Calculus 4 MATH-182 Calculus 4 MATH-182 Calculus 6 MATH-182 Calculus 7 | Fall | | | | | Spring | | | | | |
| MATH-181 Calculus | | MECE-102 | Engineering Mechanics Lab | | 3 | MECE-103 | Statics | | 3 | | |
| MECE-110 Thermodynamics Total 16 | | MECE-104 | Engineering Design Tools | | 3 | MECE-117 | Intro to Programming for Enginee | rs | 3 | | |
| MECE-110 Thermodynamics Total 16 | ır 1 | MATH-181 | Calculus I | | 4 | MATH-182 | Calculus II | | 4 | | |
| MECE-110 Thermodynamics 3 EEEE 281 Circuits 3 MECE-203 Strengths of Materials 3 MECE-205 Dynamics 3 3 MECE-204 Strengths of Materials Lab 1 MECE-210 Fluid Mechanics 3 MECE-204 Strengths of Materials Lab 1 MECE-210 Fluid Mechanics 3 MECE-211 Engineering Measurements Lab 2 Perspective W 3 MECE-211 Engineering Measurements Lab 2 Perspective W 3 Perspective W 4 W M M M M M M M M M | Yes | | First Year Writing Course | | 3 | | General Education Elective | | 3 | | |
| MECE-110 Thermodynamics 3 EEEE 281 Circuits 3 MECE-203 Strengths of Materials 1 3 MECE-205 Dynamics 3 MECE-204 Strengths of Materials Lab 1 MECE-205 Pluid Mechanics 3 MECE-205 MECE-206 Pluid Mechanics 3 MECE-207 Mece-206 Mece-207 Pluid Mechanics 3 MECE-207 | | | Perspective I | | 3 | | Perspective II | | 3 | | |
| MECE-203 Strengths of Materials 3 MECE-205 Dynamics 3 MECE-204 Strengths of Materials Lab 1 MECE-210 Fluid Mechanics 3 3 MECE-211 Engineering Measurements Lab 2 Perspective III 3 MATH-231 Differential Equations 3 Perspective IV 3 Perspective V Pers | | | | Total | 16 | | | Total | 16 | | |
| MECE-204 Strengths of Materials Lab MECE-210 Fluid Mechanics 3 MECE-211 Engineering Measurements Lab 2 Perspective II 3 MATH-231 Differential Equations 3 MECE-211 Engineering Measurements Lab 2 Perspective V 3 3 Perspective V V Perspe | | MECE-110 | Thermodynamics I | | 3 | EEEE 281 | Circuits I | | 3 | | |
| MATH-219 Multivariable Calculus Perspective III 3 MATH-231 Differential Equations 3 Perspective V 3 EGEN-99 Co-op Prep 0 0 MECE-300 Materials Science 4 MECE-305 Materials Science Lab 1 MECE-306 Materials Science Lab 1 MECE-306 Materials Science Lab 1 MECE-300 System Dynamics 3 PHYS-212 Physics II MATH-326 Boundary Value Problems 1 Mecellness I Mecellnes I Mecellness I Mecellness I Mecellness I Mecellness I Mecellness | | MECE-203 | Strengths of Materials I | | 3 | MECE-205 | Dynamics | | 3 | | |
| Perspective IIV 3 | 7 | MECE-204 | Strengths of Materials I Lab | | 1 | MECE-210 | Fluid Mechanics I | | 3 | | |
| Perspective IIV 3 | ear | MATH-219 | Multivariable Calculus | | 3 | MECE-211 | Engineering Measurements Lab | | 2 | | |
| MECE-499 Summer/Fall Co-op MECE-305 Materials Science 33 MECE-306 Materials Science 34 MECE-306 Materials Science 35 MECE-306 Materials Science 36 MECE-306 Materials Science 37 MECE-306 Materials Science 38 MECE-306 Materials Science 39 MECE-306 Materials Science 30 MECE-306 Mederials Science 30 Medrials Science 30 Medrials Science 30 Medrials Science 3 | × | | Perspective III | | 3 | MATH-231 | Differential Equations | | 3 | | |
| MECE-499 Summer/Fall Co-op MECE-305 Materials Science 3 MECE-306 Materials Science 3 MECE-306 Materials Science 3 MECE-307 MECE-308 Materials Science 3 MECE-308 Materials Science 3 MECE-320 System Dynamics 3 MECE-320 System Dynamics 3 MECE-320 System Dynamics 3 MECE-320 System Dynamics 3 Mederials Science Lab 1 MATH-326 Boundary Value Problems 3 Mederials Science Lab 1 MATH-326 Boundary Value Problems 3 Mederials Science Lab 1 MATH-326 Boundary Value Problems 3 Mederials Science Lab 1 MATH-326 Boundary Value Problems 3 Mederials Science Lab 1 MATH-326 Boundary Value Problems 3 Mederials Science Lab 1 Mederials Science | | | Perspective IV | | 3 | | Perspective V | | 3 | | |
| MECE-499 Summer/Fall Co-op MECE-305 Materials Science 3 MECE-306 Materials Science Lab 1 MECE-320 System Dynamics 3 MECE-320 System Dynamics 3 MECE-320 System Dynamics 3 MECE-320 Boundary Value Problems 3 Immersion I Wellness I 0 MECE-320 MECE-320 Boundary Value Problems 3 MECE-320 | | EGEN-99 | Co-op Prep | | 0 | | | | | | |
| MECE-306 Materials Science Lab 1 MECE-320 System Dynamics 3 MECE-320 Boundary Value Problems 3 MECE-320 Melliness I MECE-498 Melliness I MECE-498 Melliness I MECE-498 Melli | | | | Total | 16 | | | Total | 17 | | |
| MECE-320 System Dynamics 3 3 4 4 4 4 4 4 4 4 | | MECE-499 | Summer/Fall Co-op | | | MECE-305 | Materials Science | | 3 | | |
| PHYS-212 Physics II 44 MATH-326 Boundary Value Problems 33 | | | | | | MECE-306 | Materials Science Lab | | 1 | | |
| MATH-326 Boundary Value Problems Immersion I Wellness I Total 0 Total 17 MECE-499 Summer/Fall Co-op MECE-3xx ME Extended Core Elective I MECE-301 Engineering Applications Lab MECE-310 Heat Transfer I MECE-348 Contemporary Issues in ME MATH-241 Linear Algebra ME Approved Science Elective MECE-4xx ME Applied Elective I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior | က | | | | | MECE-320 | System Dynamics | | 3 | | |
| MATH-326 Boundary Value Problems Immersion I Wellness I Total 0 Total 17 MECE-499 Summer/Fall Co-op MECE-3xx ME Extended Core Elective I MECE-301 Engineering Applications Lab MECE-310 Heat Transfer I MECE-348 Contemporary Issues in ME MATH-241 Linear Algebra ME Approved Science Elective MECE-4xx ME Applied Elective I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior Design I MECE-4yr Senior | ear | | | | | PHYS-212 | Physics II | | 4 | | |
| Wellness I Total 0 Total 17 MECE-499 Summer/Fall Co-op MECE-3xx ME Extended Core Elective I MECE-301 Engineering Applications Lab MECE-301 Heat Transfer I MECE-348 Contemporary Issues in ME MATH-241 Linear Algebra MECE-498 Senior Design I MECE-497 Senior Design I MECE-498 Senior Design II MECE-497 Senior Design I STAT-205 Statistics JImmersion II Free Elective II Free Elective II Wellness II O Wellness II O Total 17 MECE-498 Senior Design II JEMECE-498 Senior Design II MECE-498 Senior Design II MECE-497 Senior Design II MECE-498 Senior Design II MECE-498 Senior Design II MECE-499 | _ | | | | | MATH-326 | Boundary Value Problems | | 3 | | |
| MECE-499 Summer/Fall Co-op MECE-3xx ME Extended Core Elective I MECE-3xx ME Extended Core Elective I MECE-3xx ME Extended Core Elective I MECE-301 Engineering Applications Lab MECE-310 Heat Transfer I MECE-348 Contemporary Issues in ME MATH-241 Linear Algebra ME Approved Science Elective ME Approved Science Elective MECE-4xx ME Applied Elective I MECE-4y7 Senior Design I MECE-497 Senior Design I MECE-497 Statistics MECE-498 Senior Design II MECE-497 Statistics MECE-498 Senior Design II MECE-497 Senior Design II MECE-497 Senior Design II MECE-498 Senior Design II MECE-499 Senior Design II MECE-490 Senior Design II | | | | | | | | | 3 | | |
| MECE-499 Summer/Fall Co-op MECE-3xx ME Extended Core Elective I MECE-301 Engineering Applications Lab MECE-301 Heat Transfer I MECE-348 Contemporary Issues in ME MATH-241 Linear Algebra MECE-497 Senior Design I MECE-498 Senior Design II MECE-497 Senior Design II MECE-498 Senior Design II MECE-498 Senior Design II MECE-499 Senior Design II MECE-499 Senior Design II MECE-497 Senior Design II MECE-498 Senior Design II MECE-499 Senior Design II MECE-490 Senior Design | | | | | | | Wellness I | | 0 | | |
| MECE-301 Engineering Applications Lab MECE-310 Heat Transfer I MECE-348 Contemporary Issues in ME MATH-241 Linear Algebra MECE-348 ME Approved Science Elective MECE-497 Senior Design I MECE-497 Senior Design I STAT-205 Statistics Immersion II Free Elective I STAT-205 Statistics Immersion II Free Elective II Wellness II MECE-310 Heat Transfer I MECE-348 Contemporary Issues in ME MECE-348 ME Applied Elective MECE-348 ME Approved Science Elective MECE-498 Senior Design II MECE-497 Senior Design II MECE-498 Senior Design II MECE-497 Senior Design II MECE-498 Free Elective III MECE-498 Senior Design II MECE-499 | | | | Total | 0 | | | Total | | | |
| MECE-310 Heat Transfer I MECE-348 Contemporary Issues in ME MATH-241 Linear Algebra MECE-348 ME Approved Science Elective MECE-348 ME Approved Science Elective MECE-497 Senior Design I MECE-497 Senior Design I MECE-497 Statistics MECE-498 Senior Design II MECE-497 Statistics MECE-498 MECE-498 ME Applied Elective II MECE-497 Senior Design II MECE-498 MECE-498 ME Applied Elective II MECE-497 Senior Design II MECE-498 ME Applied Elective II MECE-499 MECE-499 MECE-498 ME Applied Elective II MECE-499 | | MECE-499 | Summer/Fall Co-op | | | | | | 3 | | |
| MATH-241 Linear Algebra ME Approved Science Elective Total 0 Total 17 MECE-4xx ME Applied Elective I MECE-497 Senior Design I STAT-205 Statistics Immersion II Free Elective I Wellness II MATH-241 Linear Algebra ME Applroved Science Elective Total 17 MECE-498 Senior Design II 3 MECE-498 Senior Design II 3 MECE-xxx ME Applied Elective II 3 Free Elective II 3 Free Elective III 3 MECE-xxx ME Applied Elective III 3 Free Elective III 3 MECE-xxx ME Applied Elective III 4 MECE-xxx ME Applied Elective III | _ | | | | | | | | 2 | | |
| MATH-241 Linear Algebra ME Approved Science Elective Total 0 Total 17 MECE-4xx ME Applied Elective I MECE-497 Senior Design I STAT-205 Statistics Immersion II Free Elective I Wellness II MATH-241 Linear Algebra ME Applroved Science Elective Total 17 MECE-498 Senior Design II 3 MECE-498 Senior Design II 3 MECE-xxx ME Applied Elective II 3 Free Elective II 3 Free Elective III 3 MECE-xxx ME Applied Elective III 3 Free Elective III 3 MECE-xxx ME Applied Elective III 4 MECE-xxx ME Applied Elective III | ar 4 | | | | | | | | 3 | | |
| ME Approved Science Elective Total 0 Total 17 MECE-4xx ME Applied Elective I MECE-497 Senior Design I STAT-205 Statistics Immersion II Free Elective I Wellness II O MEApproved Science Elective Total 17 MECE-498 Senior Design II MECE-xxx ME Applied Elective II 3 MECE-xxx ME Applied Elective II 3 Free Elective II 3 Free Elective III 3 Wellness II | Ϋ́ | | | | | | | | 3 | | |
| MECE-4xx ME Applied Elective I 3 MECE-498 Senior Design II 3 MECE-497 Senior Design I 3 MECE-xxx ME Applied Elective II 3 MECE-xxx ME Applied Elective II 3 Immersion III 3 Free Elective II 3 Free Elective II 3 Wellness II 0 | | | | | | MATH-241 | _ | | 3 | | |
| MECE-4xx ME Applied Elective I 3 MECE-498 Senior Design II 3 MECE-497 Senior Design I 3 MECE-497 Senior Design I 3 MECE-xxx ME Applied Elective II 3 Immersion III 3 Free Elective II 3 Free Elective II 3 Wellness II 0 | | | | | | | ME Approved Science Elective | | 3 | | |
| MECE-497 Senior Design I 3 MECE-xxx ME Applied Elective II 3 STAT-205 Statistics 3 Immersion III 3 Immersion II 3 Free Elective II 3 Free Elective I 3 Free Elective III 3 Wellness II 0 | | | | Total | | | | Total | 17 | | |
| STAT-205 Statistics 3 Immersion III 3 Immersion III 3 Free Elective II 3 Free Elective II 3 Wellness II 0 | | | • • | | | | _ | | 3 | | |
| Immersion II Free Elective I Wellness II Immersion II Free Elective III Wellness II Immersion III Free Elective III Wellness II | 10 | | - | | | | • • | | 3 | | |
| Free Elective I 3 Free Elective III 3 Wellness II 0 | ar i | STAT-205 | | | 3 | | | | 3 | | |
| Wellness II 0 | Ye | | | | 3 | | | | 3 | | |
| | | | | | 3 | | Free Elective III | | 3 | | |
| | | | weimess ii | Total | _ | | | Total | 15 | | |

Program Total 129

This planning document is a tool to help you visualize your course sequence. Please refer to your AAR for a complete overview of your degree requirements. Course names and numbers are subject to change.

MECHANICAL ENGINEERING

SAMPLE 5 YEAR PLAN

| | | [| ВВ | lock | | | |
|-------------|----------------------|---------------------------------|----|----------|---------------------------------|-------|----|
| | | Fall | | | Spring | | |
| | MECE-102 | Engineering Mechanics Lab | 3 | MECE-103 | Statics | | 3 |
| | MECE-117 | Intro to Programming for Engine | 3 | MECE-104 | Engineering Design Tools | | 3 |
| Year 1 | MATH-181 | Calculus I | 4 | MATH-182 | Calculus II | | 4 |
| Yea | | First Year Writing Course | 3 | | General Education Elective | | 3 |
| | | Perspective I | 3 | | Perspective II | | 3 |
| | | Total | 16 | | | Total | 16 |
| | MECE-205 | Dynamics | 3 | MECE-110 | Thermodynamics I | | 3 |
| | MECE-211 | Engineering Measurements Lab | 2 | MECE-203 | Strengths of Materials I | | 3 |
| 2 | MATH-219 | Multivariable Calculus | 3 | MECE-204 | Strengths of Materials I Lab | | 1 |
| Year | | Perspective III | 3 | EEEE 281 | Circuits I | | 3 |
| × | | Perspective IV | 3 | MATH-231 | Differential Equations | | 3 |
| | | Perspective V | 3 | | Immersion I | | 3 |
| | | · | | EGEN-99 | Co-op Prep | | 0 |
| | | Total | 17 | | | Total | 16 |
| | MECE-210 | Fluid Mechanics I | 3 | MECE-499 | Spring/Summer Co-op | | |
| | MECE-305 | Materials Science | 3 | | | | |
| , | MECE-306 | Materials Science Lab | 1 | | | | |
| Year | MECE-320 | System Dynamics | 3 | | | | |
| > | MATH-326 | Boundary Value Problems | 3 | | | | |
| | | Immersion II | 3 | | | | |
| | | Wellness I | 0 | | | | |
| | | Total | 16 | | | Total | 0 |
| | MECE-3xx | ME Extended Core Elective I | 3 | MECE-499 | Spring/Summer Co-op | | |
| _ | MECE-301 | Engineering Applications Lab | 2 | | | | |
| Year 4 | MECE-310 | Heat Transfer I | 3 | | | | |
| Ye | MECE-348 | Contemporary Issues in ME | 3 | | | | |
| | MATH-241 | Linear Algebra | 3 | | | | |
| | | ME Approved Science Elective | 3 | | | | |
| | | Total | 17 | | | Total | 0 |
| | MECE-497 | Senior Design I | | MECE-498 | Senior Design II | | 3 |
| 2 | MECE-4xx | ME Applied Elective I | 3 | MECE-xxx | ME Applied Elective II | | 3 |
| ar t | PHYS-212 STAT-205 | Physics II | 4 | | Immersion III | | 3 |
| Ye | STAT-205 | Statistics | 3 | | Free Elective II | | 3 |
| | | Free Elective I | 3 | | Free Elective III | | 3 |
| | | Wellness II | 0 | | | | |
| | | Total | 16 | | | Total | 15 |

Program Total 129

This planning document is a tool to help you visualize your course sequence. Please refer to your AAR for a complete overview of your degree requirements. Course names and numbers are subject to change.