Fall 2024 - Summer 2025


| Engineering \& Computer Science | CS 120 | Computer Science Principles | d | d | d |  | Proficiency in Algebra |
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|  | CS 142 | Java Programming 1 | $\mathrm{d} / \mathrm{n}$ | d/h | d | d | Math\& 141 or equivalent assessment (Note: If no prior programming experience, CS 120 recommended.) |
|  | CS 143 | Java Programming 2 | d | $\mathrm{d} / \mathrm{n}$ | d/h |  | CS 142 (minimum grade of C) |
|  | Engr\& 104 | Intro to Engr and Design | hd | hd | hd |  | Math at the 100 level with minimum grade of C (may be taken concurrently) |
|  | Engr\& 114 | Engr Graphics/SolidWorks | hd | hd | hd |  | Math at the 100 level with minimum grade of C (may be taken concurrently) |
|  | Engr 170 | Intro to Materials Science |  |  | d |  | Chem\& 162 (may be taken concurrently) and Math\& 141 |
|  | Engr\& 204 | Electric Circuits |  |  | d |  | Math 238 (may be taken concurrently) and Phys\& 222 |
|  | Engr\& 214 | Statics | d |  |  |  | Phys\& 221 and Math\& 153 |
|  | Engr\& 215 | Dynamics |  | d |  |  | Engr\& 214 and Math\& 153 |
|  | Engr\& 224 | Thermodynamics |  |  | d |  | Phys\& 221, Math\& 152 and Chem\& 161 |
|  | Engr\& 225 | Mechanics of Materials |  |  | d |  | Math\& 153 (may be taken concurrently) and Engr\& 214 |
|  | Engr 240 | Applied Numerical Methods |  | d |  |  | Math\& 153 required. Math 220 and CS 120 recommended. |
| Physics \& Astronomy | Astr\& 110 | The Solar System | - | o | o |  | None |
|  | Astr\& 115 | Stars, Galaxies, Cosmos | - | d | o | d | None |
|  | Phys \& 114 | General Physics 1 | d/n | d | $\mathrm{d} / \mathrm{n}$ | d | Math at the 100 level with minimum grade of C (may be taken concurrently). MATH\& 141 recommended. |
|  | Phys\& 115 | General Physics 2 |  | $\mathrm{d} / \mathrm{n}$ | d | n | Math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS\& 114 with a minimum grade of C. MATH\& 141 recommended. |
|  | Phys\& 116 | General Physics 3 |  |  | d |  | Math at the 100 level with minimum grade of C (may be taken concurrently) and PHYS\& 114 with a minimum grade of C. MATH\& 141 recommended. |
|  | Phys\& 221 | Engr Physics - Mechanics | d | $\mathrm{d} / \mathrm{n}$ | d |  | Math\& 151 or equivalent. (Minimum grade of C.) |
|  | Phys\& 222 | Engr Physics - E\& M | d | d | n |  | Math\& 152 or equivalent, and Phys\& 221. (Minimum grade of C for all.) |
|  | Phys\& 223 | Engr Pnysics - Waves, Optics | n | d | d |  | Phys\& 221 (Minimum grade of C .) |
| Math | Math 41 | Corequisite for Precalculus | d | d | d |  | Concurrent enrollment in Math\& 141. |
|  | Math 46 | Corequisite for Statistics | d/n/hd/o | d/n/o/hd | d/n/o | d, o | Concurrent enrollment in Math\& 146. |
|  | Math 40 | Corequisite for Intermediate Algebra | o | hd | d |  | Concurrent enrollment in Math 95. |
|  | Math 95 | Intermediate Algebra | d, o | d, o | d, o | d | Completion of the Directed Self Placement tool; or appropriate placement. |
|  | Math\& 107 | Math in Society | hd/o | d/o | hd/o | - | Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies. |
|  | Math \&131 | Math for Elementary Education 1 |  | d |  |  | Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies. |
|  | Math \& 132 | Math for Elementary Education 2 |  |  | d |  | Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies. |
|  | Math\& 141 | Precalculus I | d/n/hd/o | d/hd/o | d/n/o | d, o | Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies. |
|  | Math\& 142 | Precalculus II | d, o | d, n, o | d, hd, o | 0 | MATH \& 141 with a minimum grade of C or appropriate MATH placement. |
|  | Math\& 146 | Introduction to Statistics | d/n/hd/o | d/n/hd/o | d/n/hd/o | d/o | Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies. |
|  | Math 147 | College Algebra for Business \& Economi | d, o | d, o | d, o | d | Completion of the Directed Self Placement tool; or appropriate placement. Running Start students must place based on Running Start policies. |
|  | Math\& 148 | Business Calculus | - | d | $\bigcirc$ | o | Math147 with a minimum grade of C or appropriate MATH placement and department permission; and knowledge of Excel spreadsheet software including graphing. |
|  | Math\& 151 | Calculus I | d, n, o | d, o, hd | d, o, hd | d, o | Math\& 142 with a minimum grade of C or appropriate MATH placement and department permission. |
|  | Math\& 152 | Calculus II | d, o | d, n, hd, o | d, o, hd | d, o | Math\& 151 with a minimum grade of C or appropriate MATH placement and department permission. |
|  | Math\& 153 | Calculus III | d, o | d, o | hd, n | d | Math\& 152 with a minimum grade of C or appropriate MATH placement and department permission. |
|  | Math 220 | Linear Algebra | d | - | hd |  | Math\& 153 with a minimum grade of C or appropriate MATH placement and department permission. |
|  | Math 238 | Elements Of Differential Equations | o | hd | d | d | Math\& 153 with a minimum grade of C or appropriate MATH placement and department permission. |
|  | Math\& 254 | Calculus IV | hd | d | o | o | Math\& 153 with a minimum grade of C or appropriate MATH placement and department permission. |

