

**IOWA STATE
ENGINEERING TRANSFER GUIDE**

| Harper College | Name of Class | ISU class | Majors it will work for (blanks indicate it will not transfer) |
|-----------------------|----------------------|------------------|---|
| CHM 121 | GEN CHEM I:SCI MAJ | CHEM 177 | All majors |
| | GEN CHM I SCI MJ LB | CHEM 177L | |
| CHM 122 | GEN CHEM II:SCI MAJ | CHEM 178 | Chemical, Civil, Materials |
| | GEN CHM II SC MJ LB | CHEM 178L | |
| CHM 204 | ORGANIC CHEM I | CHEM 331 | Chemical, Biological Systems |
| | ORGANIC CHEM I LAB | CHEM 333L | |
| CHM 205 | ORGANIC CHEM II | CHEM 332 | Chemical, Biological Systems |
| | ORGANIC CHEM II LAB | CHEM 334L | |
| CSC 121 | COMPUTER SCIENCE I | COM S 1T31 | |
| CSC 208 | PROB SOLV US FORTRA | COM S 2T32 | may count for Aerospace if EM 274 is also taken |
| ECO 211 | MICROECONOMICS | ECON 101 | Ok for all majors; required for Mechanical and Construction |
| EGR 120 | ENGR GRAPHICS I | ENGR 170 | Ag, Biological Systems, Civil, Construction, Mechanical, Materials |
| EGR 121 | ENGR GRAPHICS II | ENGR 1T36 | |
| EGR 122 | INTRO TO CAD/GRAPH | ENGR 1T37 | |
| EGR 150 | STATICS | E M 274 | Ok for all majors |
| EGR 170 | ENGINEERING GRAPH I | ENGR 1T38 | |
| EGR 210* | ANALYT MECH STATICS | E M 274 | Aerospace, Ag, Biological Systems, Civil, Construction, Industrial, Materials, Mechanical |
| EGR 211* | ANALYT MECH DYNAMCS | E M 345 | Aerospace, Ag, Biological Systems, Civil, Construction, Mechanical |
| EGR 212* | MECH DEFORMABLE BOD | E M 324 | Aerospace, Ag, Biological Systems, Civil, Construction, Materials, |
| EGR 240* | THERMODYNAMICS | M E 330 | Aerospace, Ag, Biological Systems, Industrial, Mechanical |
| EGR 260 | INTRO CIRC ANALYSIS | E E 2T34 | |
| EGR 262 | ELEC CIRCUITS LAB | E E 2T35 | |
| EGR 270 | INTRO TO DIGIT SYST | CPR E 2T33 | |
| ENG 101 | COMPOSITION I | ENGL 150 | all majors |
| ENG 102 | COMPOSITION II | ENGL 250 | all majors |
| MTH 200 | CALCULUS I | MATH 165 | all majors |
| MTH 201 | CALCULUS II | MATH 166 | all majors |
| MTH 202 | CALCULUS III | MATH 265 | all majors except Ag and Biological Systems and Software |
| MTH 212 | DIFF EQUATIONS | MATH 267 | all majors |
| PHY 201 | GEN PHYS I-MECHANIC | PHYS 221 | all majors |
| PHY 202 | GEN PHYS2-HT,ELC,MG | PHYS 222 | all majors except Environmental (part of Civil Engr) |
| PHY 203 | GN PHY III-THRM/QNT | PHYS 2T39 | |
| ACC 101 | INTR FINANCIAL ACCT | ACCT 284 | Civil, Construction, Industrial |
| ACC 211 | BUSINESS LAW I | ACCT 215 | Civil, Construction, Industrial |

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| SPE 101 | FUND OF SP COMM | SP CM 212 | Ag, Biological Systems, Civil, Industrial, Software |
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*tech elective for other majors not listed