

2007-08 Curriculum Check Sheets

Fulton School of Engineering

ASU ID
ASU Requirement for all incoming Freshmen       Image: Comparison of the control of th
ASU 101 The ASU Experience       1 credit       C. Lower Division Engineering (25 hrs)       His Cr ASU T       Trans or         LEnglish Proficiency (6 hrs)       His Cr Max Tr From Gr       Trans ASU T       C. Lower Division Engineering (25 hrs)       His Cr ASU T       Trans or         LENG 101 / 107 First-Year Comp (3) and +ENG 102 / 108 First-Year Comp (3) and Applicable Elective (3) – see Department       CE 111 Prin. of Prog. with Java (CS)       3         The General Requirements (15 hrs) (See Catalog for approved courses) A. Humanities & Social Sciences (15 hrs min)       HEE 200 Intro Engr Dsgn For IE (CS)       3         Humanities, Fine Arts, and Design (6 hrs min)(HU)       HEE 308 Ecol For Engrs       3       I         HEE 368 Facilities Analysis & Design (L)       HEE 308 Port Engr Prot Engrs       3       I         Social/Behavioral Sciences (6 hrs min)(SB)       I       HEE 308 Port Engr Prot CS)       3       I         FEC 211 Macroeconomics Prin (SB)       3       I       HEE 308 Porticities With Probability (CS)       3       I         HEE 474 Quality Control (CS)       3       I       I       I       I       I       I         Humanities, Fine Arts, and Design (6 hrs min)(SB)       I       I       I       I       I       I       I       I       I       I       I       I       I       I       <
ASU 101 The ASU Experience       1 credit       C. Lower Division Engineering (25 hrs)       His Cr ASU T       Trans or         LEnglish Proficiency (6 hrs)       His Cr Max Tr From Gr       Trans ASU T       C. Lower Division Engineering (25 hrs)       His Cr ASU T       Trans or         LENG 101 / 107 First-Year Comp (3) and +ENG 102 / 108 First-Year Comp (3) and Applicable Elective (3) – see Department       CE 111 Prin. of Prog. with Java (CS)       3         The General Requirements (15 hrs) (See Catalog for approved courses) A. Humanities & Social Sciences (15 hrs min)       HEE 200 Intro Engr Dsgn For IE (CS)       3         Humanities, Fine Arts, and Design (6 hrs min)(HU)       HEE 308 Ecol For Engrs       3       I         HEE 368 Facilities Analysis & Design (L)       HEE 308 Port Engr Prot Engrs       3       I         Social/Behavioral Sciences (6 hrs min)(SB)       I       HEE 308 Port Engr Prot CS)       3       I         FEC 211 Macroeconomics Prin (SB)       3       I       HEE 308 Porticities With Probability (CS)       3       I         HEE 474 Quality Control (CS)       3       I       I       I       I       I       I         Humanities, Fine Arts, and Design (6 hrs min)(SB)       I       I       I       I       I       I       I       I       I       I       I       I       I       I       <
I. English Proficiency (6 hrs)       Hrs. Cr.       Trans       CE       211 Engr Mechanics: Stat & Dyn OR.       4       4         VLNversty requirement 'C'' min required)       AU Tr.       Form Gr.       CEE       211 Engr Mechanics: Stat & Dyn OR.       4       4         +ENG 101 /107 First-Year Comp (3)       CEE       CEE       211 Engr Mechanics:       3       CEE       213         Or, if eligible (see Catalog for eligibility),       EEE 202 Circuits I       4       4       4         +ENG 101 /107 First-Year Comp (3) and       CEE       210 Intro to Indust Engr       2       4         -       Sub Total (I)       -       -       4       -         -       Sub Total (I)       -       -       -       -         -       Sub Total (I)       -       -       -       -       -         -       Sub Total (I)       -
(University requirement - "C" min required)       ASU Tr       From       Gr         +ENG 101 / 107 First-Year Comp (3) and       CSE 110 Prin. of Prog. with Java (CS)       3         Or, if eligible (see Catalog for eligibility),       EEE 202 Circuits I       4         +ENG 105 Adv First-Year Comp (3) and       HEE 210 Intro to Indust Engr       2         An Applicable Elective (3) - see Department       HEE 210 Intro to Indust Engr       2         II. General Requirements (15 hrs) (See Catalog for approved courses)       MSE 250 Structure / Prop. of Matter       3         A. Humanities & Social Sciences (15 hrs min)       Sub Total (I)       WSE 250 Structure / Prop. of Matter       3         Humanities, Fine Arts, and Design (6 hrs min)(HU)       HEE 306 Eronalysis. For Engrs       3       1         HEE 305 Information Systems Eng. (CS)       3       1       1         Social/Behavioral Sciences (6 hrs min)(SB)       HEE 376 Deterministic Operation Res. (CS)       3       1         ECN 211 Macroeconomics Prin (SB)       HEE 470 Stochastic Oyer Research       3       1         Awareness Areas:       HEE 470 Stochastic Oyer Research       3       1         Global       Historical       HEE 470 Stochastic Oyer Research       3       1         HEE 470 Dischastic Oyer Research       3       1       1
+ENG 101 / 107 / brist-Year Comp (3) and       CSE 110 Prin. of Prog. with Java (CS)       3         +ENG 102 / 108 First-Year Comp (3) and       CSE 205 Con of CS & Data Struc(CS)       3         An Applicable lective (3) - see Department       HEE 100 Intro Engr Dsgn For IE (CS)       3         II. General Requirements (15 hrs min)       Sub Total (1)       HEE 220 Business & Ind. Engr.       3         II. General Requirements (15 hrs min)       Sub Total (II)       Sub Total (II)       HEE 220 Business & Ind. Engr.       3         Humanities, Fine Arts, and Design (6 hrs min)(HU)       HEE 305 Information Systems Eng. (CS)       3       4         Social/Behavioral Sciences (6 hrs min)(SB)       HEE 306 Production Res. (CS)       3       4         ECN 211 Macroeconomics Prin (SB)       3       HEE 380 Prob/Stat. for Engr Statistics With Probability (CS)       3         Awareness Areas:       HEE 470 Stochastic Oper Research       3       4         Cultural       HEE 470 Suchastic Oper Research       3       4         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       3       4         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       3       4
+ENG 102 / 108 First-Year Comp (3)       CSE 205 Con of CS & Data Struc(CS)       3         Or, if eligible (see Catalog for eligibility), +ENG 105 Adv First-Year Comp (3) and       HENG 102 / 108 First-Year Comp (3) and       4         An Applicable Elective (3) – see Department       HEE 200 Circuits I       4         Sub Total (I)       HEE 210 Intro Engr Dsgn For IE (CS)       3         II. General Requirements (15 hrs) (See Catalog for approved courses)       A. Humanities & Social Sciences (15 hrs min)       3         A. Humanities, Fine Arts, and Design (6 hrs min)(HU)       Sub Total (II)       WKe equired Upper Division Courses (45 hrs)         Humanities, Fine Arts, and Design (6 hrs min)(KB)       HEE 305 Information Systems Eng. (CS)       3         Social/Behavioral Sciences (6 hrs min)(SB)       HEE 336 Proh./Stat. for Engr Not (CS)       3         Social/Behavioral Sciences (6 hrs min)(SB)       HEE 330 Proh./Stat. for Engr Not (CS)       3         HUE 237 Deterministic Operation Res. (CS)       3       HEE 410 Production Control       3         Awareness Areas:       HEE 470 Stochastic Systems Cystems       3       HEE 475 Sim Stochastic System Cystems       3         Global       HIEE 475 Sim Stochastic System Seconds       3       HEE 475 Sim Stochastic System Cystems       3         Global       HIEE 475 Sim Stochastic System Seconds       4       HEE 475 Sim Stochastic Sys
Or, if eligible (see Catalog for eligibility), +ENG 105 Adv First-Year Comp (3) and An Applicable Elective (3) – see Department Sub Total (1)
An Applicable Elective (3) - see Department
An Applicable Elective (3) - see Department       ++++++++++++++++++++++++++++++++++++
Sub Total (I)       +IEE 220 Business & Ind. Engr.       3         II. General Requirements (15 hrs) (See Catalog for approved courses)       MSE 250 Structure / Prop. of Matter       3         A. Humanities & Social Sciences (15 hrs) (General Required (10), and historical (10). Duble counting is permissible between HU or SB and the awareness areas: and a disworthers areas.       MSE 250 Structure / Prop. of Matter       3       MSE 250 Structure / Prop. of Matter       MSE 250 Structure / Prop. of Matter       MSE 250 Structure / Prop. of Matter       MSE 250 Structure / Pr
II. General Requirements (15 hrs) (See Catalog for approved courses)       MSE 250 Structure / Prop. of Matter       3         A. Humanities & Social Sciences (15 hrs min)       Sub Total (III)
A. Humanities & Social Sciences (15 hrs min)       Sub Total (III)         (Required: 1 course upper division: plus a minimum of two courses that satisfy three awareness areas: cultural (C) global (0), multiple awareness areas: and also within the awareness areas:       Sub Total (III)         Humanities, Fine Arts, and Design (6 hrs min)(HU)       +IEE 300 Econ. Analysis. For Engrs       3         +IEE 300 Econ. Analysis & Dsgn (L)       3       +IEE 300 Ford. Analysis & Dsgn (L)       3         Social/Behavioral Sciences (6 hrs min)(SB)       +IEE 376 Deterministic Operation Res. (CS)       3       -         ECN 211 Macroeconomics Prin (SB)       3       +IEE 385 Engr. Statistics With Probability (CS)       3       -         Awareness Areas:       -       -       +IEE 470 Stochastic Oper Research       3       -         Global       -       -       -       -       -       -       -         Humanities, Fine Areas:       -       -       -       -       -       -       -       -       -
(Required: Fourse upper division; plus a minimum of boo courses that satisfy three awareness areas:       IV. Required Upper Division Courses (45 hrs)         Humanities, Fine Arts, and Design (6 hrs min)(HU)       IEE 300 Econ. Analysis. For Engrs       3         Humanities, Fine Arts, and Design (6 hrs min)(HU)       IEE 300 Econ. Analysis. For Engrs       3         Humanities, Fine Arts, and Design (6 hrs min)(HU)       IEE 300 Econ. Analysis. For Engrs       3         Humanities, Fine Arts, and Design (6 hrs min)(HU)       IEE 300 Econ. Analysis & Design (L)       3         Humanities, Fine Arts, and Design (6 hrs min)(SB)       IEE 369 Work Analysis & Design (L)       3         ECN 211 Macroeconomics Prin (SB)       3       IEE 380 Prob./Stat. for Engr Prob (CS)       3         Awareness Areas:       IEE 461 Production Control       3       IEE 470 Stochastic Oper Research       3         Global       IEE 474 Quality Control (CS)       3       IEE 475 Sim Stochastic Syst (CS)       3         Historical       IEE 470 Project in Design (L)       3       IEE 470 Stochastic Syst (CS)       3         Historical       IEE 470 Project in Design (L)       3       IEE 470 Stochastic Syst (CS)       3         Global       IEE 470 Project in Design (L)       3       IEE 470 Stochastic Syst (CS)       3       IEE 490 Project in Design (L)       3         Global
Humanities, Fine Arts, and Design (6 hrs min)(HU)       +IEE 300 Econ. Analysis. For Engrs       3         Humanities, Fine Arts, and Design (6 hrs min)(HU)       +IEE 300 Econ. Analysis. For Engrs       3         +IEE 305 Information Systems Eng. (CS)       3         +IEE 368 Facilities Analysis & Design (L)       0R       3         +IEE 369 Work Analysis & Design (L)       -       -         Social/Behavioral Sciences (6 hrs min)(SB)       +IEE 376 Deterministic Operation Res. (CS)       3         ECN 211 Macroeconomics Prin (SB)       3       +IEE 380 Prob./Stat. for Engr Prob (CS)       3         -       -       +IEE 476 Deterministic Operation Res. (CS)       3         -       -       +IEE 380 Prob./Stat. for Engr Prob (CS)       3         -       -       +IEE 470 Production Control       3         -       -       +IEE 470 Stochastic Oper Research       3         -       -       +IEE 475 Sim Stochastic Syst (CS)       3         Global       -       -       +IEE 490 Project in Design (L)       3         Historical       -       -       -       -       -         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       -       -       -         Career-Focused Area Electives (9 hrs) See Dept
Hindminies, Fine Hirs, and Design (Onrs min)(110)       +IEE 305 Information Systems Eng. (CS)       3         +IEE 305 Information Systems Eng. (CS)       3       +IEE 305 Information Systems Eng. (CS)       3         Social/Behavioral Sciences (6 hrs min)(SB)       +IEE 369 Work Analysis & Design (L)       3       +IEE 369 Work Analysis & Design (L)       3         Social/Behavioral Sciences (6 hrs min)(SB)
HEE 368 Facilities Analysis & Dsgn (L) OR3Social/Behavioral Sciences (6 hrs min)(SB)+IEE 369 Work Analysis & Design (L)+IEE 369 Work Analysis & Design (L)Social/Behavioral Sciences (6 hrs min)(SB)3+IEE 376 Deterministic Operation Res. (CS)3ECN 211 Macroeconomics Prin (SB)3+IEE 380 Prob./Stat. for Engr Prob (CS)3Awareness Areas:1+IEE 461 Production Control3Cultural1+IEE 470 Stochastic Oper Research3Global1+IEE 475 Sim Stochastic Syst (CS)3Historical1+IEE 490 Project in Design (L)3B. Literacy/Critical Inquiry (6 hrs)Satisfied by required courses in MajorCareer-Focused Area Electives (9 hrs) See Dept1C. Natural Sciences/Basic Sciences (8 hrs)Satisfied by required courses in Major11
Social/Behavioral Sciences (6 hrs min)(SB)       +IEE 369 Work Analysis & Design (L)         ECN 211 Macroeconomics Prin (SB)       3         ECN 211 Macroeconomics Prin (SB)       3         HEE 380 Prob./Stat. for Engr Prob (CS)       3         +IEE 385 Engr. Statistics With Probability (CS)       3         +IEE 461 Production Control       3         Awareness Areas:       +IEE 470 Stochastic Oper Research       3         Cultural       +IEE 475 Sim Stochastic Syst (CS)       3         Historical       +IEE 490 Project in Design (L)       3         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       Career-Focused Area Electives (9 hrs) See Dept         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       1       1
Social/Behavioral Sciences (6 hrs min)(SB)       +IEE 376 Deterministic Operation Res. (CS)       3         ECN 211 Macroeconomics Prin (SB)       3       +IEE 380 Prob./Stat. for Engr Prob (CS)       3         HEE 385 Engr. Statistics With Probability (CS)       3       +IEE 461 Production Control       3         Awareness Areas:       +IEE 470 Stochastic Oper Research       3       +IEE 474 Quality Control (CS)       3         Cultural       +IEE 475 Sim Stochastic Syst (CS)       3       +IEE 490 Project in Design (L)       3         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       Career-Focused Area Electives (9 hrs) See Dept       1
ECN 211 Macroeconomics Prin (SB)       3       +IEE 380 Prob./Stat. for Engr Prob (CS)       3         +IEE 385 Engr. Statistics With Probability (CS)       3       +IEE 461 Production Control       3         Awareness Areas:       +IEE 470 Stochastic Oper Research       3       4         Cultural       +IEE 474 Quality Control (CS)       3       3         Global       +IEE 475 Sim Stochastic Syst (CS)       3       3         Historical       IEE 490 Project in Design (L)       3       3         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       Career-Focused Area Electives (9 hrs) See Dept       5         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       1       1       1
HECK 211 Macroeconomics FTM (5D)       3         HEE 385 Engr. Statistics With Probability (CS)       3         HEE 461 Production Control       3         Awareness Areas:       HEE 470 Stochastic Oper Research       3         Cultural       HEE 474 Quality Control (CS)       3         Global       HEE 475 Sim Stochastic Syst (CS)       3         Historical       HEE 490 Project in Design (L)       3         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       Career-Focused Area Electives (9 hrs) See Dept         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       1
Awareness Areas:       +IEE 461 Production Control       3         Awareness Areas:       +IEE 470 Stochastic Oper Research       3         Cultural       +IEE 474 Quality Control (CS)       3         Global       +IEE 475 Sim Stochastic Syst (CS)       3         Historical       +IEE 490 Project in Design (L)       3         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       Career-Focused Area Electives (9 hrs) See Dept         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       1
Cultural       +IEE 474 Quality Control (CS)       3         Global       +IEE 475 Sim Stochastic Syst (CS)       3         Historical       +IEE 490 Project in Design (L)       3         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       Career-Focused Area Electives (9 hrs) See Dept         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       1
Cultural       +IEE 474 Quality Control (CS)       3         Global       +IEE 475 Sim Stochastic Syst (CS)       3         Historical       +IEE 490 Project in Design (L)       3         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       5         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       1
Global       +IEE 475 Sim Stochastic Syst (CS)       3         Historical       +IEE 490 Project in Design (L)       3         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       3         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       1
Historical       +IEE 490 Project in Design (L)       3         B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       3         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       1
B. Literacy/Critical Inquiry (6 hrs)       Satisfied by required courses in Major       Career-Focused Area Electives (9 hrs) See Dept       Image: Career-Focused Area Electives (9 hrs) See Dept         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major       Image: Career-Focused Area Electives (9 hrs) See Dept       Image: Career-Focused Area Electives (9 hrs) See Dept
D. Encrucy/Crutical Inquity (6 m/s)       Satisfied by required courses in Major         C. Natural Sciences/Basic Sciences (8 hrs)       Satisfied by required courses in Major
C. Natural Sciences/Basic Sciences (8 hrs) Satisfied by required courses in Major
courses in Major
D. Mathematical Studies (6 hrs) Satisfied by required +IE Technical Elective (3 hrs) See Dept
courses in Major
Sub Total (II)    Sub Total (IV)
III. Required Lower Division Courses (54 hrs)       Total Upper Division
A. Natural Sciences/Basic Sciences (15 hrs)
BME 111 Engr Persp on Bio Sys 3 + A minimum grade of "C" (2.0) required
CHM 114 or 116 <sup>1</sup> Chomistry (SQ)
PHY 121 University Physics I $(SQ)^2$ 3 <sup>1</sup> CHM 113 is prerequisite and does not apply toward degree credit <sup>2</sup> Must complete lecture and lab to receive SQ credit.
PHY 122 Univ. Physics Lab I $(SQ)^2$ 1
PHY 131 University Physics II $(SQ)^2$ 3 Graduation Requirements:
PHY 132 Univ. Physics Lab II $(SQ)^2$ 1
<b>B.</b> Mathematical Studies (14 hrs) Regular Curriculum – 120 Hours
MAT 242 Elem. Linear Algebra     2     Semester Hour Summary     Hrs/ASU     Tr Hrs     Total
+ MAT 265 Calc for Engrs I 3 I. English Proficiency
+ MAT 266 Calc for Engrs II 3 II. General Studies
MAT 267 Calc for Engrs III 3 III. Required Lower Division
MAT 275 Mod Diff. Eqs (MA) 3 IV. Required Upper Division
IV. Reduited Ubber Division