

2007-08 Curriculum Check Sheets

Name ___

ASU ID

Anticipated Grad, Date

| ASU Requirement for all incoming Fre | shmen | | | | |
|--|--|-------------------|-------------|------------|-----------|
| ASU 101 The ASU Experience | | 1 cr | edit | | |
| | | | | | _ |
| I. English Proficiency (6 hrs) | | | <u>s Cr</u> | Trans | |
| (University requirement – "C" min required) | 1 | ASU | Tr | From | Gr |
| +ENG 101 / 107 First-Year Comp (3) an | 10 | | | | |
| +ENG 102 / 108 First-Year Comp (3) | <u>``</u> | | | | |
| Or , if eligible (see Catalog for eligibility | | | | | |
| +ENG 105 Adv First-Year Comp (3) and | | | | | |
| An Applicable Elective (3) – see Departm | ment | | | | |
| Sub Total (I) | | | | | |
| II. General Requirements (15 hrs) (See A. Humanities & Social Sciences (15 hrs mi (Required: 1 course upper division; plus a minimum of two courses global (G), and historical (H). Double counting is permissible betw also within the awareness areas.) Humanities, Fine Arts, and Design (6 hrs. | n) that satisfy thr veen HU or SB | ee awa and the | reness | areas: cul | tural (C) |
| GPH 314 Global Change (HU,G) <u>or</u> PH | | 3 | | | |
| Environmental Ethics (HU) | 1 510 | 5 | | | |
| Lavironnental Luites (110) | | | | | |
| | | | | | |
| Social/Behavioral Sciences (6 hrs min)(S | R) | | | 1 | |
| GCU 364 Energy in the Global Arena (S | / | | | | |
| or PUP 190 Sustainable Cities (HU,G or | | | | | |
| of FOF 190 Sustainable Cities (H0,0 of | 3 D , U) | | | | |
| | | | | | |
| A | | | | | |
| Awareness Areas | | | | 1 | |
| Cultural | | | | | |
| Global | | | | | |
| Historical | | | | | |
| B. Literacy/Critical Inquiry (6 hrs) | G (* 6 | | 0 | | |
| #L: MAE 491 Experimentl Mech Engr | Satisf | | | | เท |
| #L: MAE 400 Engineering Profession | | IVI | lajor | • | |
| C. Natural Sciences/Basic Sciences (8 h | | | 0 | | |
| + <i>SQ</i> : PHY 121/122 Physics I/Lab I | Satisfied by Courses in | | | | |
| +SQ: PHY 132 Physics Lab II | | | lajor | ۴ | |
| D. Mathematical Studies (6 hrs) – mark | | | | | |
| #CS: MAE 100 Intro to ME & AE | Satisf | | - | | in |
| +MA: MAT 275 Modern Diff Eqs | | M | lajor | * | |
| Sub Total (II) | | | | | |
| III. Required Lower Division Courses | (52 hrs) | | | | |
| A. Natural Sciences/Basic Sciences (18 | hrs) | | | | |
| BIO 319 Environmental Sci (G) or | | 2 | | | |
| BIO 320 Fund of Ecology | | 3 | | | |
| +CHM 114, 115 ^{1, 2} , or 116 ² Chemistry (S | 5Q) | 4 | | | |
| +CHM 231 Intro to Organic Chem | ~ | 3 | | | |
| + PHY 121 Physics I $(SQ)^3$ | | 3 | | | |
| + PHY 122 Physics Lab I $(SQ)^3$ | | 1 | | | |
| + PHY 131 Physics II $(SQ)^3$ | | 3 | | | - |
| + PHY 132 Physics Lab II $(SQ)^3$ | | 1 | | | |
| B. Mathematical Studies (12 hrs) | | - | | 1 | 1 |
| +MAT 265 Calc for Engrs I | | 3 | | | |
| +MAT 266 Calc for Engrs II | | 3 | | | + |
| +MAT 260 Cale for Engrs II +MAT 267 Cale for Engrs III | | 3 | | | + |
| +MAT 275 Mod Diff EQ (MA) | | 3 | | | |
| | | 5 | | | |

| (| Concentration: Energy and Environment | | | | | |
|---|---------------------------------------|--------|---------------------|-----|---------------|---|
| Ŀ | IGEC-A, AGEC-B, AGEC-S; | Comple | ted: 🗆 | Yes | $\square No$ | , |
| | # C. Lower Division Engr(22 hrs) | | <u>Hrs (</u> ASU | | Trans From | |
| | +MAE 100 Intro to ME & AE (CS) | | 3 | | | |
| | +MAE 212 Engineering Mechanics | | 4 | | | |
| | MAE 213 Mechanics of Solids | | 3 | | | |
| | MAE 214 CAE I | | 1 | | | |
| | MAE 240 Thermofluids I | | 4 | | | |
| | MSE 250 Struc & Prop of Materials | | 3 | | | |
| | | | | | | |

Major: Mechanical Engineering

| EEE 202 Circuits I | 4 | | | | |
|--|---|--|--|--|--|
| Sub Total (III) | | | | | |
| IV. Required Upper Division Courses (47 hrs) | | | | | |
| #MAE 318 Sensors and Controls | 5 | | | | |
| #MAE 322 Structural Mechanics | 4 | | | | |
| #MAE 323 CAE II | 2 | | | | |
| #MAE 340 Thermofluids II | 3 | | | | |
| #MAE 342 Principles of Design | 3 | | | | |
| #MAE 382 Thermodynamics II | 3 | | | | |
| #MAE 384 Numerical Methods (CS) | 3 | | | | |
| #MAE 400 Engineering Profession (L) | 3 | | | | |
| #MAE 446 Energy Syst Design | 3 | | | | |
| #MAE 491 Experimental Mech Engr (L) | 3 | | | | |
| +MAT 343 Applied Linear Algebra | 3 | | | | |
| # Technical Electives (12 hrs) ⁴ | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| Sub Total (IV) | | | | | |

Fulton School of Engineering

Degree **BSE**

G

Total Upper Division ____ (minimum 45 required)

+ A minimum grade of " \overline{C} " (2.0) required

Designates Major Course: A minimum cumulative GPA of 2.00 required Designates a skill-set course ¹ Only 4 hours of CHM 115 will apply toward degree credit

 2 CHM 113 is prerequisite and does not apply toward degree credit ³Must complete lecture and lab to receive SQ credit

⁴Two electives must be chosen from the Energy and Environment approved list of courses

Graduation Requirements

Regular Curriculum – 120 Hours

| Semester Hour Summary | Hrs/ASU | Tr Hrs | Total |
|------------------------------|---------|---------|-------|
| I. English Proficiency | | | |
| II. General Requirements | | | |
| III. Required Lower Division | | | |
| IV. Required Upper Division | | | |
| Total Program Hours | | | |
| Submitted by Student Signal | ture | <i></i> | ate |
| Approved Advisor | | D | ate |
| Approved | | | |

Department Chair

Date

8/30/07