



DEGREE REQUIREMENT EVALUATION

California State Polytechnic University, Pomona

ELM Satisfied ___ Yes ___ No
 EPT Satisfied ___ Yes ___ No
 GWT Satisfied ___ Yes ___ No

YEAR: 1997-98

MAJOR **AEROSPACE ENGINEERING (5050)**
 OPTION _____
 UNITS REQUIRED 202

NAME _____
 LAST FIRST M.I.
 STUDENT ID NO. _____

EVALUATOR _____
 DATE _____
 UPDATES _____

Students in this major are expected to achieve and maintain a GPA of at least 2.00 in all courses included in Column I.

A. GENERAL EDUCATION. Students may fulfill these requirements at Cal Poly Pomona with the General Education (GE) or the Interdisciplinary General Education (IGE) Programs. Select courses from approved lists shown in the Schedule of Classes unless specified.

| Column I | Column II | Column IIIa | Column IIIb |
|---|---------------------------------------|--------------------------------|--|
| CORE COURSES IN MAJOR | SUPPORT AND DIRECTED ELECTIVES | Interdis. G.E. | AREA 1 – 12 units a) ENG 104 (4) b) COM 204 (4) c) ENG 105 (4) |
| Intro Aero Engr I ARO 101/L 1 | General Chemistry CHM 121/L 4 | IGE 120 4 | AREA 2 – 17 units (must include one lab course; area 2d must be upper division) |
| Intro Aero Engr II ARO 102/L 1 | General Chemistry CHM 122/L 4 | IGE 121 4 | a) MAT 114 (4) b) PHY 131/151L (4) c) BIO 110 (3) |
| Intro Aero Engr III ARO 103/L 1 | An Geom/Calculus II MAT 115 4 | IGE 122 4 | d) MAT 317, 318 (3,3) |
| Aero Engr Comp Graphics ARO 127/L (2) | An Geom/Calculus III MAT 116 4 | IGE 220 4 | AREA 3 – 24 units |
| Fund Sys Engr ARO 201/L 1 | Calc of Sev Var I MAT 214 3 | IGE 221 4 | Arts, Literature, Philosophy, and Foreign Languages |
| Fund Aeronautics ARO 202/L 1 | Calc of Sev Var II MAT 215 3 | IGE 222 4 | a) Elective (4) b) PHL 201 (4) c) UD or LD Elective (4) |
| Fund Astronautics ARO 203/L 1 | Diff Equations MAT 216 4 | IGE 223 4 | Social, Political, and Economic Institutions |
| Fluid Mechanics ARO 301 4 | Mats Science MTE 207 3 | IGE 224 4 | d) EC 202 (4) e, f) PLS 390/SOC 390 (4)* |
| Subsonic Aerodyn ARO 305 4 | Gen Physics PHY 132/152L 4 | COM 204 4 | Integrated Being |
| Astronautics ARO 309 3 | Gen Physics PHY 133/153L 4 | EC 202 4 | g) PSY 201 (4) |
| Gas Dynamics ARO 311 3 | | ENG 105 4 | AREA 4 – 8 units |
| Aero Propulsn Sys ARO 312 4 | | Area 2-17 units (See Col IIIb) | PLS 201 (4) and HST 202 (4) |
| Aero Fdbk Ctrl Sys ARO 322/L 4 | | Area 5-8 units (See Col IIIb) | AREA 5 – 8 units (A total of 12 upper division units required in GE—four in Area 2d and eight in Area 5.) |
| Intro Struct Mech ARO 326 4 | | | ECE 353/355L (4), ECE 354/356L (4) |
| Aero Struct Mech ARO 327 3 | | | *course satisfies two requirements |
| Aero Struct Analysis & Design ARO 329 3 | | | |
| Gas Dynamics Lab ARO 351/L 1 | | | |
| Aerodyn & Propulsion Lab ARO 352/L 1 | | | |
| Aero Struc Lab ARO 357/L 1 | | | |
| Heat, Mass & Moment Transfer ARO 401 4 | | | |
| High-Speed Aerodyn ARO 404 3 | | | |
| Aero Veh Stab & Cont ARO 405 4 | | | |
| Dynam Aero Sys ARO 406 4 | | | |
| Senior Project ARO 461 2 | | | |
| Senior Project ARO 462 2 | | | |
| Intro to Vehicle Design ARO 491 3 | | | |
| Vehicle Design Lab I ARO 492/L 2 | | | |
| Vehicle Design Lab II ARO 493/L 2 | | | |
| Vector Statics ME 214 3 | | | |
| Vector Dynamics ME 215 4 | | | |
| Thermodynamics ME 301 4 | | | |
| Approved Technical Elec 16 | | | |
| Column I Units Required 96 | Column II Units Required 37 | Column III Units Required 69 | |
| | | TRANSFER ELECTIVES | SUMMARY OF ADVANCED STANDING CREDIT: |
| | | | Earned Hours _____ |
| | | | G.P.A. Hours _____ |
| | | | Quality Points _____ |
| | | | G.P.A. _____ |

NOT MORE THAN 105 UNITS FROM A COMMUNITY COLLEGE NOR MORE THAN 36 UNITS OF EXTENSION WORK MAY BE APPLIED TOWARD A BACHELOR'S DEGREE.
 ALL SPEAKERS OF ENGLISH AS A SECOND LANGUAGE WHO HAVE NOT ACHIEVED THE MINIMUM EPT SCORE FOR ENGLISH 104 MUST TAKE ENGLISH 102 AND 103.
 A 2.0 CUMULATIVE GPA IS REQUIRED IN CORE COURSES INCLUDING OPTION COURSES IN ORDER TO RECEIVE A DEGREE IN THIS MAJOR. F-105-16 Rev. 2/97

**CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA
AEROSPACE ENGINEERING**

NAME: _____

CPID: _____

CURRICULUM FLOWSHEET, 1997-98

| | FRESHMAN | | | SOPHOMORE | | | JUNIOR | | | SENIOR | | | |
|-------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------|--------------|---------------------------|-------------------|---------------|-------------------|---------------------|
| | FALL | WINTER | SPRING | FALL | WINTER | SPRING | FALL | WINTER | SPRING | FALL | WINTER | SPRING | |
| | ARO 101L 1 | ARO 102L 1 | ARO 103L 1 | ARO 201L 1 | ARO 202L 1 | ARO 203L 1 | ARO 301 4 | ARO 305 4 | ARO 312 4 | ARO 491 3 | ARO 492L 2 | ARO 493L 2 | |
| | | PHY 131/ PHY 151L 4 | PHY 132/ PHY 152L 4 | PHY 133/ PHY 153L 4 | | ARO 328 4 | ARO 327 3 | ARO 311 3 | ARO 401 4 | | | ARO ELECTIVE 4 | |
| | | | | | ECE 353/ ECE 355L 4 | ECE 354/ ECE 356L 4 | | | ARO 357 1 | ARO 404 3 | ARO 405 4 | ARO ELECTIVE 4 | ARO ELECTIVE 4 |
| | | | | ME 214 3 | ME 215 4 | | ME 301 4 | | ARO 322/ ARO 322L 4 | | ARO 461 2 | ARO 482 2 | |
| | MAT 114 4 | MAT 115 4 | MAT 116 4 | MAT 214 3 | MAT 215 3 | MAT 216 4 | MAT 316 3 | MAT 317 3 | ARO 351 1 | ARO 352 1 | | | |
| | COM 204 4 | | ENG 105 4 | ARO 127/ ARO 127L 2 | | | | ARO 329 3 | | ARO ELECTIVE 4 | BIO 110 3 | | |
| | CHM 121/ CHM 121L 4 | CMH 122/ CHM 122L 4 | | | | | | | ARO 309 3 | ARO 406 4 | MTE 207 3 | | |
| IGE | IGE 120 4 | IGE 121 4 | IGE 122 4 | IGE 220 4 | IGE 221 4 | IGE 222 4 | IGE 223 4 | IGE 224 4 | | | | | |
| GE | ENG 104 4 | PHL 201 4 | AREA 3c 4 | PLS/ SOC 390 4 | EC 202 4 | PSY 201 4 | PLS 201 4 | HST 202 4 | | | | AREA 3a 4 | |
| UNITS | 17 | 17 | 17 | 17 | 16 | 17 | 18 | 18 | 19 | 18 | 14 | 14 | TOTAL 202 |