## California State Polytechnic University, Pomona <br> Degree Curriculum Sheet

| Required Core Courses |  |  |
| :--- | ---: | :---: |
| Course |  |  |
| Discrete Systems Simulation | IE 429/429L | $3 / 1$ |
| Industrial \& Manuf Engr Fundamentals | IME 112 | 3 |
| Industrial \& Manuf Engr Computations | IME 113/113L | $2 / 1$ |
| Industrial Costs \& Control | IME 239 | 3 |
| Application of Statistics in Engineering | IME 301 | 3 |
| Engineering Probability and Statistics | IME 312 | 3 |
| Supply Chain Planning \& Control | IME 326 | 3 |
| Facilities Planning \& Layout Design | IME 331/331L | $3 / 1$ |
| Quality Control by Statistical Methods | IME 415/415L | $3 / 1$ |
| Senior Project Seminar | IME 460 | 1 |
| Senior Project | IME 471 or IME 461 | 2 |
| Senior Project | IME 472 or IME 462 | 3 |
| Analytic Geometry/Calculus II | MAT 115 | 4 |
| Analytic Geometry/Calculus III | MAT 116 | 4 |
| Calculus of Several Variables I | MAT 214 | 3 |
| Calculus of Several Variables II | MAT 215 | 3 |
| Elem Linear Algebra and Diff Equations | MAT 224 | 4 |
| Engineering Graphics I | MFE 126/126L | $2 / 1$ |
| Manufacturing Processes - |  |  |
| Materials, Metrology \& Treatment | MFE 217/217L | $2 / 1$ |
| Manufacturing Processes I - Material Removal | MFE 221/221L | $2 / 1$ |
| Engineering Graphics II | MFE 226/226L | $2 / 1$ |
| Manufacturing Processes II - Form, Cast, Join | MFE 230/230L | $2 / 1$ |
| Principles of Numerical Control | MFE 250/250L | $2 / 1$ |
| Measurement \& Methods | MFE 320/320L | $3 / 1$ |
| Design for Manufacturing | MFE 326/326L | $2 / 1$ |
| CAD/CAM | MFE 375/375L | $3 / 1$ |
| Introduction to Computer Integrated Mfg | MFE 450/450L | $3 / 1$ |
| Metal Work Theory \& Application | MFE 465 | 3 |
| Advanced Computer Aided Mfg Systems | MFE 476/476L | $3 / 1$ |
| General Physics | PHY 132/132L | $3 / 1$ |
| General Physics | PHY 133/133L | $3 / 1$ |
|  |  |  |
|  |  |  |


| Elective Core Courses |  |  |  |
| :--- | :---: | :---: | :---: |
| Course | Units |  |  |
| Manufacturing Electives (Select with advisor approval) <br> Number of elective units depends on ME 301 or ME 311 in <br> Required Support. | $3-4$ |  |  |
| Total Units |  |  | $\mathbf{3 - 4}$ |


| General Education Requirements |  | IGE (G.E. <br> Alternative) |
| :---: | :---: | :---: |
| Area | Units |  |
| Area A Communication \& Critical Thinking | 12 | IGE 120 |
| 1 Oral Communication |  | IGE 121 |
| 2 Written Communication |  | IGE 122 |
| 3 Critical Thinking |  | IGE 220 |
| Area B Mathematics \& Natural Sciences | 16 | IGE 222 4 |
| Select at least one lab course from sub-area 1 or 2. |  | IGE 223 |
| 1 Physical Science |  | or EC 201 |
| 2 Biological Science |  | or EC 202 |
| 3 Laboratory Activity |  | IGE 224 |
| 4 Math/Quantitative Reasoning |  | Area A1 |
| 5 Science \& Technology Synthesis |  | Area A3 <br> Area B 16 |
| Area C Humanities | 16 | Area C1, C2, |
| 1 Visual and Performing Arts |  | or C3 4 |
| 2 Philosophy and Civilization |  | Area C4 4 |
| 3 Literature and Foreign Language |  | Area D4 4 |
| 4 Humanities Synthesis |  |  |
| Area D Social Sciences | 20 | See University |
| 1 U.S. History, Constitution, American Ideals |  | Catalog for infor- |
| 2 History, Economics and Political Science |  | mation on how |
| 3 Sociology, Anthropology, Ethnic \& Gender Studies |  | IGE meets G.E. requirements. |
| 4 Social Synthesis |  | requirements. |
| Area E Lifelong Understanding \& Self Development | 4 |  |
| Total Units | 68 |  |


| American Institutions |  |
| :--- | :--- |
| Courses that satisfy this requirement may also satisfy G.E. Area | 8 |
| D1 |  |

## American Cultural Perspectives Requiremen

Refer to catalog for list of courses that satisfy this requirement. requirements.

The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

| Course |  | GE Area |
| :--- | ---: | :---: |
| General Physics | PHY 131/131L | B1, B3 |
| and General Chemistry Lab | CHM 121L | B3 |
| Analytic Geometry/Calculus I | MAT 114 | B4 |
| Ethical Considerations in Tech. \& Appl Science | EGR 402 | C4 |
| Principles of Economics | EC 201 or 202 | D2 |
| Asset Alloc in Tech Decision Making | EGR 403 | D4 |

The remaining GE requirements may be satisfied by any course approved for that area.

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.


