

FIGURE 3-5. COURSES APPROVED FOR THE EXPERIMENTATION REQUIREMENT

| Course | Title | Units |
|--------------------|--|---------|
| AA 131 | Experimentation in Aero/Astro | 3 |
| BIOSCI 44 | Core Experimental Laboratory | 3 |
| CEE 100 | Managing Civil Engineering Projects | 1 |
| CEE 101A | Structural Systems | 1 |
| CEE 101C | Geotechnical Engineering | 1 |
| CEE 114 | Symbolic Modeling in Engineering | 2 |
| CEE 147 | Cases in Personality, Leadership, and Negotiation | 1 |
| CEE 148 | Design/Construction of Affordable Housing | 1 |
| CEE 160 | Mechanics of Fluids Laboratory | 2 |
| CEE 161 | Open Channel and Pipe Flows | 1 |
| CEE 176A,B | Energy Efficient buildings | 1, 1 |
| CEE 179A | Water Chemistry Lab | 2 |
| CEE 179B | Process Design for Biotechnology (alternate years) | 2 |
| CEE 195 | Structural Geology and Rock Mechanics | 1 |
| CEE 242 | Organization Design for Projects and Companies | 1 |
| CHEM 36 | Chemical Separations | 2 |
| CHEM 130 | Theory and Practice of Identification | 4 |
| CHEM 132 | Qualitative Organic Analysis | 4 |
| CHEMENG 180A,B | Chemical Engineering Laboratory | 2, 2 |
| CS 48N | The Science of Art | 3 |
| EE 121 | Digital Design Laboratory | 3 |
| EE 122 | Analog Laboratory | 3 |
| EE 133 | Analog Communications Design Laboratory | 2 |
| EE 144 | Electromagnetic Waves Design Laboratory | 1.5 |
| EE 181 | Computer Organization, Machine and Assembly Language | 1 |
| EE 182 | Digital Computer Organization | 2 |
| EE 183 | Digital Logic Laboratory | 3 |
| EE 218 | Semi-custom VLSI Systems | 1 |
| EE 281 | Microcomputer-Based System Design | 3 |
| ENGR 40 | Introductory Electronics | 2 |
| ENGR 75 | Intro to Small Computer Interfacing | 3 |
| GES 1 | Fundamental of Geology | 1 |
| GES 3 | Earth History Laboratory | 2 |
| MATSCI 161,162,163 | Experimental Methods in Materials Science | 4, 4, 4 |
| ME 33 | Introductory Fluids Engineering | 1 |
| ME 103 | Manufacturing and Design | 1 |
| ME 117 | Introduction to Sensors | .5 |
| ME 118 | Introduction to Mechatronics | 3 |
| ME 130 | Internal Combustion Engines | 3 |
| ME 131A | Heat Transfer | 2 |
| ME 132 | Thermosciences Laboratory | 3 |
| ME 217A | Design for Manufacturability | 1 |
| MS&E 108 | Senior Project | 3, 3, 3 |
| MS&E 160 | Analysis of Production and Operating Systems | 1 |
| MS&E 164 | Work Design and Measurement | 2 |
| MS&E 169 | Quality Assurance and Control | 1 |
| MS&E 180 | Organizations: Theory and Management | 1 |
| MS&E 265 | Reengineering the Manufacturing Function | 2 |
| MS&E 277 | Creativity and Innovation in Organizations | 1 |
| PHYSICS 52 | Physics Lab | 1 |