

LEAN MANUFACTURING AND ANALYTICS - UNDERGRADUATE MINOR

| Prefix | Title | Credits |
|---|--|-----------|
| Course Requirements | | |
| <i>Required Courses</i> | | |
| I E 316 | Methods Engineering | 3 |
| I E 490 | Selected Topics (Lean tools in Systems Engineering) | 3 |
| <i>Technical Elective Courses (Choose 6 credits from the following)</i> | | 6 |
| Track One - Data Analytics | | |
| I E 311 | Engineering Data Analysis | |
| A ST 311 | Statistical Applications | |
| I E 351 | Applied Problem Solving in Industrial Engineering | |
| STAT 3110 | Statistics for Engineers and Scientists | |
| I E 460 | Evaluation of Engineering Data | |
| STAT 4210 | Probability: Theory and Applications | |
| BCIS 461 | Business Analytics I | |
| CSCI 4415 | Introduction to Data Mining | |
| Track Two - Manufacturing Systems | | |
| I E 375 | Manufacturing Processes II | |
| I E 217 | Manufacturing Processes | |
| E T 217 | Manufacturing Processes | |
| I E 478 | Facilities Planning and Design | |
| E T 480 | Innovation and Product Development | |
| MGMT 344 | Production and Operations Management | |
| Track Three - Quality Control | | |
| I E 365 | Quality Control | |
| I E 466 | Reliability | |
| I E 490 | Selected Topics (Introduction to Advanced Manufacturing) | |
| C E 498 | Special Topics (Introduction to Nondestructive Testing) | |
| <i>Applications in Engineering & Business (Choose 6 credits from the following)¹</i> | | 6 |
| A E Courses 400-level (With approval of advisor and instructor) | | |
| C E Courses 400-level (With approval of advisor and instructor) | | |
| CHME Courses 400-level (With approval of advisor and instructor) | | |
| E E Courses 400-level (With approval of advisor and instructor) | | |
| E T Courses 400-level (With approval of advisor and instructor) | | |
| I E Courses 400-level (With approval of advisor and instructor) | | |
| M E Courses 400-level (With approval of advisor and instructor) | | |
| BCIS Courses 400-level (With approval of advisor and instructor) | | |
| MGMT Courses 400-level (With approval of advisor and instructor) | | |
| CSCI Courses 400-level (With approval of advisor and instructor) | | |
| A ST Courses 400-level (With approval of advisor and instructor) | | |
| Total Credits | | 18 |

¹ Courses numbered 450 or above may be used to satisfy course requirements for the Master's Accelerated Program (<https://engr.nmsu.edu/students/Fifth-page.html>) (requires department head approval)