

Ahlia University
COLLEGE OF BUSINESS & FINANCE
MASTER OF SCIENCE DEGREE IN ENGINEERING MANAGEMENT IN COLLABORATION WITH THE
GEORGE WASHINGTON UNIVERSITY
EMSE

EMSE - Foundation * (3 CREDITS)

| Course | Code | Course Title | Lec | Lab | Cr | Prerequisite |
|--------|------|--|-----|-----|----------|--------------|
| EMSE | 197 | Special Topics: Quantitative Methods in Engineering Management | 6 | 0 | 3 | |
| | | | | | 3 | |

EMSE - FIRST YEAR (24 CREDITS)

First Semester

| Course | Code | Course Title | Lec | Lab | Cr | Prerequisite |
|--------|------|---|-----|-----|-----------|--------------|
| EMSE | 001 | The Management of Technical Organizations | 6 | 0 | 3 | |
| EMSE | 410 | Survey of Finance and Engineering Economics | 6 | 0 | 3 | |
| EMSE | 020 | Decision Making with Uncertainty | 6 | 0 | 3 | |
| EMSE | 801 | Systems Engineering I | 6 | 0 | 3 | |
| | | | | | 12 | |

Second Semester

| Course | Code | Course Title | Lec | Lab | Cr | Prerequisite |
|--------|---------|---|-----|-----|-----------|--------------|
| EMSE | I XXX | Elective I in EMSE | X | X | 3 | |
| EMSE | II XXX | Elective II in EMSE | X | X | 3 | |
| EMSE | III XXX | Elective III in EMSE | X | X | 3 | |
| EMSE | 992 | Special Topics: Research Methods for the EM | 6 | 0 | 3 | |
| | | | | | 12 | |

EMSE - SECOND YEAR (12 CREDITS)

First Semester

| Course | Code | Course Title | Lec | Lab | Cr | Prerequisite |
|--------|--------|---------------------|-----|-----|-----------|--------------|
| EMSE | IV XXX | Elective IV in EMSE | X | X | 3 | |
| EMSE | V XXX | Elective V in EMSE | X | X | 3 | |
| EMSE | 995 | Research | 0 | 12 | 6 | EMSE 992 |
| | | | | | 12 | |

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LIST OF MAJOR ELECTIVE COURSES

| Course | Code | Course Title | Lec | Lab | Cr | Prerequisite |
|---------------|-------------|---|------------|------------|-----------|---------------------|
| EMSE | 005 | Organizational Behavior for the Engineering Manager | 6 | 0 | 3 | |
| EMSE | 026 | Technical Enterprises | 6 | 0 | 3 | |
| EMSE | 035 | Marketing of Technology | 6 | 0 | 3 | |
| EMSE | 505 | Knowledge Management I | 6 | 0 | 3 | |
| EMSE | 770 | Techniques of Risk Analysis and Management | 6 | 0 | 3 | |
| EMSE | 790 | Logistics Planning | 6 | 0 | 3 | |
| EMSE | 820 | Program and Project Management | 6 | 0 | 3 | |
| EMSE | 850 | Quantitative Models in Systems Engineering | 6 | 0 | 3 | |