

UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM  
DETAILED CURRICULUM REPORT  
Seattle CAMPUS

COLLEGE : J - Engineering  
DEPARTMENT: INDUSTRL & SYSTEMS ENGR

| DEPARTMENT: INDUSTRIAL & SYSTEMS ENGR |     |                     |                     |                 |                                                     |     |       |               |               |         |               |               |        |         |                |       |   |
|---------------------------------------|-----|---------------------|---------------------|-----------------|-----------------------------------------------------|-----|-------|---------------|---------------|---------|---------------|---------------|--------|---------|----------------|-------|---|
| COURSE                                |     | TITLE               | EFFECTIVE QUARTERS  | QUARTER CREDITS | OVER D                                              | D   | S H F | V             | E E W         |         |               |               |        |         | RESPONS        | JOINT | O |
| CURRIC                                | NUM |                     |                     |                 | -ALL U                                              | GRD | E     | U N E         | L I           | E C Q T | P & N C M S N | A S W T P R G | COURSE | COURSES |                |       |   |
| IND E                                 | 101 | INTRODUCTION TO IE  | SPR/2002 - AUT/9999 | 1.0             | .                                                   | .   | .     | .             | . Y . . . . . |         |               |               |        |         |                |       | . |
|                                       |     |                     |                     |                 | LAST UPDT: 1/29/02 APPROVED: 1/28/02                |     |       |               |               |         |               |               |        |         |                |       |   |
| IND E                                 | 250 | ENGR ECON           | AUT/1999 - AUT/9999 | 4.0             | .                                                   | .   | .     | .             | . Y . . . . . |         |               |               |        |         |                |       | . |
|                                       |     |                     |                     |                 | LAST UPDT:10/18/06 APPROVED: 3/15/99                |     |       |               |               |         |               |               |        |         |                |       |   |
|                                       |     |                     |                     |                 | COMMENT:WAS ENGR 250                                |     |       |               |               |         |               |               |        |         |                |       |   |
| IND E                                 | 295 | PRODUCT DISSECTION  | SPR/1996 - AUT/9999 | 3.0             | .                                                   | .   | .     | .             | .             | .       | .             | .             | M E    | 295 M E | 295            | .     |   |
|                                       |     |                     |                     |                 | LAST UPDT: 2/11/08 APPROVED:12/27/95                |     |       |               |               |         |               |               |        |         |                |       |   |
| IND E                                 | 315 | PROB & STAT FOR ENG | SPR/2010 - AUT/9999 | 3.0             | .                                                   | .   | .     | .             | . Y . . . . . |         |               |               |        |         |                |       | . |
|                                       |     |                     |                     |                 | LAST UPDT: 3/04/16 APPROVED: 3/15/99                |     |       |               |               |         |               |               |        |         |                |       |   |
|                                       |     |                     |                     |                 | COMMENT:EMAIL PREQ CHG                              |     |       |               |               |         |               |               |        |         |                |       |   |
| IND E                                 | 316 | DES EXPR REGR ANLYS | WIN/2008 - AUT/9999 | 4.0             | .                                                   | .   | .     | .             | . Y . . . . . |         |               |               |        |         | IND E 316 STAT | 316   | . |
|                                       |     |                     |                     |                 | LAST UPDT: 3/04/16 APPROVED: 1/29/87                |     |       |               |               |         |               |               |        |         |                |       |   |
|                                       |     |                     |                     |                 | COMMENT:ADD MISSING PREQ                            |     |       |               |               |         |               |               |        |         |                |       |   |
| IND E                                 | 321 | STAT QUAL CONTROL   | WIN/2005 - AUT/9999 | 4.0             | .                                                   | .   | .     | .             | .             | .       | .             | .             |        |         |                | .     |   |
|                                       |     |                     |                     |                 | LAST UPDT: 3/04/16 APPROVED:12/18/86                |     |       |               |               |         |               |               |        |         |                |       |   |
|                                       |     |                     |                     |                 | COMMENT:WAS IND E 421;CHG CREDITS                   |     |       |               |               |         |               |               |        |         |                |       |   |
| IND E                                 | 337 | INTRO MANU SYSTEMS  | WIN/2005 - AUT/9999 | 4.0             | .                                                   | .   | .     | . Y . . . . . |               |         |               |               |        |         |                | .     |   |
|                                       |     |                     |                     |                 | LAST UPDT: 1/24/17 APPROVED:12/18/86                |     |       |               |               |         |               |               |        |         |                |       |   |
|                                       |     |                     |                     |                 | COMMENT:WAS IND E 237; CHG CREDITS                  |     |       |               |               |         |               |               |        |         |                |       |   |
|                                       |     |                     |                     |                 | FEE TYPE:1 \$100.00 BUDGET:068557 REV OBJ CD:943081 |     |       |               |               |         |               |               |        |         |                |       |   |
| IND E                                 | 351 | HUMAN FACTORS       | WIN/2005 - AUT/9999 | 4.0             | .                                                   | .   | .     | .             | .             | .       | .             | .             |        |         |                | .     |   |
|                                       |     |                     |                     |                 | LAST UPDT: 8/26/04 APPROVED:12/18/86                |     |       |               |               |         |               |               |        |         |                |       |   |
|                                       |     |                     |                     |                 | COMMENT:CHG CREDITS, CONTACT HRS                    |     |       |               |               |         |               |               |        |         |                |       |   |
| IND E                                 | 410 | LINEAR & NETWORK PR | SPR/2007 - AUT/9999 | 4.0             | .                                                   | .   | .     | .             | .             | .       | .             | .             |        |         |                | .     |   |
|                                       |     |                     |                     |                 | LAST UPDT: 9/28/09 APPROVED:12/18/86                |     |       |               |               |         |               |               |        |         |                |       |   |
|                                       |     |                     |                     |                 | COMMENT:WAS IND E 310                               |     |       |               |               |         |               |               |        |         |                |       |   |

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| COURSE<br>CURRIC NUM                   | TITLE                                                           | EFFECTIVE           | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P            | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C Q<br>M S N | W<br>R<br>T<br>P R G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|----------------------------------------|-----------------------------------------------------------------|---------------------|----------|--------------------|--------------------------------------|-----------------|----------------|-------------------------|----------------------------|-----------------------|----------------------|-------------------|------------------|------------------|
| IND E 411                              | STCH MODL & DEC ANL<br>Stochastic Models and Decision Analysis  | SPR/2007 - AUT/9999 |          | 4.0                | .                                    | .               | .              | .                       | .                          | .                     | .                    |                   |                  | .                |
| COMMENT:WAS IND E 311                  |                                                                 |                     |          |                    | LAST UPDT: 3/04/16 APPROVED:12/18/86 |                 |                |                         |                            |                       |                      |                   |                  |                  |
| IND E 412                              | INTEGER & DYNAMIC PR<br>Integer and Dynamic Programming         | SPR/2007 - AUT/9999 |          | 4.0                | .                                    | .               | .              | .                       | .                          | .                     | .                    |                   |                  | .                |
| COMMENT:WAS IND E 312                  |                                                                 |                     |          |                    | LAST UPDT: 9/28/09 APPROVED:12/18/86 |                 |                |                         |                            |                       |                      |                   |                  |                  |
| IND E 424                              | SIMULATION<br>Simulation                                        | WIN/2005 - AUT/9999 |          | 4.0                | .                                    | .               | .              | .                       | .                          | .                     | .                    |                   |                  | .                |
| COMMENT:EMAIL PREREQ CHANGE            |                                                                 |                     |          |                    | LAST UPDT: 3/04/16 APPROVED:12/18/86 |                 |                |                         |                            |                       |                      |                   |                  |                  |
| IND E 426                              | REL ENG & SYS SAFE<br>Reliability Engineering and System Safety | WIN/2005 - AUT/9999 |          | 4.0                | .                                    | .               | .              | .                       | .                          | .                     | .                    |                   |                  | .                |
| COMMENT:CHG CREDITS, CONTACT HRS.      |                                                                 |                     |          |                    | LAST UPDT: 3/04/16 APPROVED: 1/24/96 |                 |                |                         |                            |                       |                      |                   |                  |                  |
| IND E 430                              | MANU SCHED AND INV<br>Manufacturing Scheduling and Inventory    | WIN/2008 - AUT/9999 |          | 4.0                | .                                    | .               | .              | .                       | .                          | .                     | .                    |                   |                  | .                |
| COMMENT:EMAIL PREQ CHG                 |                                                                 |                     |          |                    | LAST UPDT: 3/04/16 APPROVED: 9/18/91 |                 |                |                         |                            |                       |                      |                   |                  |                  |
| IND E 439                              | LAYOUT & MATL HAND<br>Plant Layout and Material Handling        | WIN/2008 - AUT/9999 |          | 4.0                | .                                    | .               | .              | .                       | .                          | .                     | .                    |                   |                  | .                |
| COMMENT:EMAIL PREQ CHG                 |                                                                 |                     |          |                    | LAST UPDT: 3/04/16 APPROVED: 1/24/96 |                 |                |                         |                            |                       |                      |                   |                  |                  |
| IND E 455                              | USER INTERFACE DES<br>User Interface Design                     | AUT/2009 - AUT/9999 |          | 4.0                | .                                    | .               | .              | .                       | .                          | .                     | .                    | IND E 455         | HCDE 455         | .                |
| COMMENT:CHG JT PREFIX                  |                                                                 |                     |          |                    | LAST UPDT: 1/27/09 APPROVED: 5/01/90 |                 |                |                         |                            |                       |                      |                   |                  |                  |
| IND E 470                              | SYSTEMS ENGINEERING<br>Systems Engineering                      | AUT/2007 - AUT/9999 |          | 4.0                | .                                    | .               | .              | .                       | .                          | .                     | .                    | IND E 470         | A A 470          | .                |
| COMMENT:WAS INDE280, CHG TLS, PRQ,DESC |                                                                 |                     |          |                    | LAST UPDT: 6/26/07 APPROVED: 6/01/99 |                 |                |                         |                            |                       |                      |                   |                  |                  |
| IND E 494                              | DES IN MANUF FIRM<br>Design in the Manufacturing Firm           | WIN/2013 - AUT/9999 |          | 4.0                | .                                    | .               | .              | .                       | .                          | .                     | .                    |                   |                  | .                |
| COMMENT:EMAIL PREQ CHG                 |                                                                 |                     |          |                    | LAST UPDT:11/05/12 APPROVED: 5/31/90 |                 |                |                         |                            |                       |                      |                   |                  |                  |

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| COURSE<br>CURRIC NUM               | TITLE                                                                     | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P                     | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C<br>M S<br>T P | W<br>R<br>Q<br>T<br>N<br>G | RESPONS<br>COURSE  | JOINT<br>COURSES | O<br>M<br>I<br>T |
|------------------------------------|---------------------------------------------------------------------------|------------|----------|--------------------|-----------------------------------------------|-----------------|----------------|-------------------------|----------------------------|--------------------------|----------------------------|--------------------|------------------|------------------|
| IND E 495                          | I E DESIGN<br>Industrial Engineering Design                               | WIN/2005 - | AUT/9999 | 4.0                | .                                             | .               | .              | .                       | .                          | .                        | .                          | .                  | .                | .                |
| COMMENT:CHG CREDITS, CONTACT HRS   |                                                                           |            |          |                    | LAST UPDT:10/18/06 APPROVED:12/18/86          |                 |                |                         |                            |                          |                            |                    |                  |                  |
| IND E 496                          | TECH-BASED ENTREPRE<br>Technology-Based Entrepreneurship                  | SPR/2013 - | AUT/9999 | 3.0                | .                                             | .               | .              | .                       | .                          | .                        | .                          | IND E 496 M E      | 496              | .                |
| COMMENT:EMAIL PREQ CHG             |                                                                           |            |          |                    | LAST UPDT: 2/14/13 APPROVED: 1/24/96          |                 |                |                         |                            |                          |                            |                    |                  |                  |
| IND E 498                          | SPECIAL TOPICS I E<br>Special Topics in Industrial Engineering            | SUM/2011 - | AUT/9999 | 1.0-05.0           | 9.0                                           | .               | .              | .                       | .                          | .                        | .                          | .                  | .                | .                |
| COMMENT:EMAIL PREQ CHG             |                                                                           |            |          |                    | LAST UPDT:11/15/10 APPROVED:12/18/86          |                 |                |                         |                            |                          |                            |                    |                  |                  |
| IND E 499                          | SPECIAL PROJECTS IE<br>Special Projects                                   | AUT/2010 - | AUT/9999 | 2.0-05.0           | 12.0                                          | Y               | .              | .                       | .                          | .                        | .                          | .                  | .                | .                |
| COMMENT:CHG MAX CREDITS            |                                                                           |            |          |                    | LAST UPDT: 5/17/10 APPROVED:12/18/86          |                 |                |                         |                            |                          |                            |                    |                  |                  |
| IND E 508                          | STOC PROC IN ENGR<br>Stochastic Processes in Engineering                  | WIN/2009 - | AUT/9999 | 3.0                | .                                             | .               | .              | .                       | .                          | .                        | .                          | E E 508 E E        | 508              | .                |
| COMMENT:ADD JT TO EXISTING E E 508 |                                                                           |            |          |                    | LAST UPDT: 3/04/16 APPROVED: 7/16/70          |                 |                |                         |                            |                          |                            |                    |                  |                  |
| IND E 512                          | OPTIMIZATION MODELS<br>Introduction to Optimization Models                | AUT/2016 - | AUT/9999 | 3.0                | .                                             | .               | .              | .                       | .                          | .                        | .                          | .                  | .                | .                |
| COMMENT:END INITIAL DL             |                                                                           |            |          |                    | LAST UPDT:12/19/12 APPROVED:12/18/12          |                 |                |                         |                            |                          |                            |                    |                  |                  |
| IND E 513                          | LINEAR OPT ENG MODL<br>Linear Optimization Models in Engineering          | AUT/1999 - | AUT/9999 | 3.0                | .                                             | .               | .              | .                       | .                          | .                        | .                          | .                  | .                | .                |
| COMMENT:CONV TEMP TO PERM          |                                                                           |            |          |                    | LAST UPDT: 3/04/16 APPROVED: 6/28/93          |                 |                |                         |                            |                          |                            |                    |                  |                  |
| IND E 515                          | FUNDAMNTL OPTIMIZTN<br>Fundamentals of Optimization                       | AUT/1999 - | AUT/9999 | 5.0                | .                                             | .               | .              | .                       | .                          | .                        | .                          | MATH 515 AMATH 515 | 515              | .                |
| COMMENT:CONV OF TEMP TO PERM       |                                                                           |            |          |                    | LAST UPDT: 3/22/16 APPROVED: 3/28/94 MATH 515 |                 |                |                         |                            |                          |                            |                    |                  |                  |
| IND E 516                          | APPL OPT ENG DESIGN<br>Applications of Optimization in Engineering Design | AUT/2009 - | AUT/9999 | 3.0                | .                                             | .               | .              | .                       | .                          | .                        | .                          | .                  | .                | .                |
| COMMENT:DROP JT STATUS             |                                                                           |            |          |                    | LAST UPDT: 9/28/09 APPROVED: 2/28/94          |                 |                |                         |                            |                          |                            |                    |                  |                  |

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| COURSE<br>CURRIC NUM         | TITLE                                                                       | EFFECTIVE QUARTERS  | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P | D<br>GRD<br>SYS | D<br>E<br>HYPH    | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L E C<br>M S N<br>T P R G | RESPONS<br>COURSE   | JOINT<br>COURSES | O<br>M<br>I<br>T |
|------------------------------|-----------------------------------------------------------------------------|---------------------|--------------------|---------------------------|-----------------|-------------------|-------------------------|----------------------------|----------------------------------|---------------------|------------------|------------------|
| IND E 518                    | SEMINAR IN MFG MGMT<br>Seminars on Advances in Manufacturing and Management | AUT/1999 - AUT/9999 | 1.0                | .                         | .               | .                 | .                       | .                          | .                                | M E                 | 518 M E 518      | .                |
|                              |                                                                             |                     |                    | LAST UPDT:10/18/06        |                 | APPROVED: 2/03/99 |                         |                            |                                  |                     |                  |                  |
| IND E 519                    | HEALTHCARE MODELING<br>Healthcare Modeling and Decision Making              | WIN/2017 - AUT/9999 | 3.0                | .                         | .               | .                 | .                       | .                          | .                                |                     |                  | .                |
|                              |                                                                             |                     |                    | LAST UPDT:11/15/16        |                 | APPROVED: 9/20/16 |                         |                            |                                  |                     |                  |                  |
| IND E 521                    | QUAL CONTROL IN MFG<br>Quality Control in Manufacturing                     | AUT/1999 - AUT/9999 | 3.0                | .                         | .               | .                 | .                       | .                          | .                                |                     |                  | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                             |                     |                    | LAST UPDT: 3/04/16        |                 | APPROVED: 6/28/93 |                         |                            |                                  |                     |                  |                  |
| IND E 524                    | ROB DES QLTY ENGR<br>Robust Design and Quality Engineering                  | AUT/1999 - AUT/9999 | 3.0                | .                         | .               | .                 | .                       | .                          | .                                |                     |                  | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                             |                     |                    | LAST UPDT: 4/28/99        |                 | APPROVED: 1/24/96 |                         |                            |                                  |                     |                  |                  |
| IND E 526                    | RELIABILITY<br>Reliability in Product Design and Testing                    | AUT/1999 - AUT/9999 | 3.0                | .                         | .               | .                 | .                       | .                          | .                                |                     |                  | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                             |                     |                    | LAST UPDT: 3/04/16        |                 | APPROVED: 6/28/93 |                         |                            |                                  |                     |                  |                  |
| IND E 535                    | ENGINRNG SIMULATION<br>Engineering Simulation                               | WIN/2000 - AUT/9999 | 3.0                | .                         | .               | .                 | .                       | .                          | .                                |                     |                  | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                             |                     |                    | LAST UPDT: 3/04/16        |                 | APPROVED: 6/28/93 |                         |                            |                                  |                     |                  |                  |
| IND E 537                    | INTRO MANUF SYSTEMS<br>Introduction to Manufacturing Systems                | AUT/2003 - AUT/9999 | 3.0                | .                         | .               | .                 | .                       | .                          | .                                | IND E 537 ENV H 537 |                  | .                |
|                              |                                                                             |                     |                    | LAST UPDT: 3/04/05        |                 | APPROVED: 3/31/03 |                         |                            |                                  |                     |                  |                  |
| IND E 541                    | HUMAN FACTORS ENGR<br>HUMAN FACTORS ENGINEERING                             | AUT/1999 - AUT/9999 | 3.0                | .                         | .               | .                 | .                       | .                          | .                                |                     |                  | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                             |                     |                    | LAST UPDT: 4/28/99        |                 | APPROVED: 6/28/93 |                         |                            |                                  |                     |                  |                  |
| IND E 543                    | VIRTUAL INTRFC TECH<br>Virtual Interface Technology                         | AUT/2016 - AUT/9999 | 3.0                | .                         | .               | .                 | .                       | .                          | .                                |                     |                  | .                |
|                              |                                                                             |                     |                    | LAST UPDT: 3/22/16        |                 | APPROVED: 6/28/93 |                         |                            |                                  |                     |                  |                  |
| IND E 544                    | VIRTUAL WORLD DEVL P<br>Virtual World Development                           | AUT/1999 - AUT/9999 | 3.0                | .                         | .               | .                 | .                       | .                          | .                                |                     |                  | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                             |                     |                    | LAST UPDT: 4/28/99        |                 | APPROVED: 6/28/93 |                         |                            |                                  |                     |                  |                  |

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|------------------------------|------------------------------------------------------------------------------|------------|----------|--------------------|------------------------------------------------|-----------------|----------------|-------------------------|----------------------------|----------------------------------|-------------------|------------------|------------------|
| IND E 545                    | USER-CENTERED DESIGN<br>User-Centered Design                                 | AUT/2009 - | AUT/9999 | 4.0                | .                                              | .               | .              | .                       | .                          | .                                | HCDE 518          | HCDE 518         | .                |
| COMMENT:CHG JT STATUS        |                                                                              |            |          |                    | LAST UPDT: 1/27/09 APPROVED:11/25/03           |                 |                |                         |                            |                                  |                   |                  |                  |
| IND E 546                    | ANYL METH TRANS I<br>Analytical Methods in Transportation I                  | SUM/2015 - | AUT/9999 | 3.0                | .                                              | .               | .              | .                       | .                          | .                                | CEE 584           | CEE 584          | .                |
| COMMENT:EMAIL PREQ CHG       |                                                                              |            |          |                    | LAST UPDT: 3/23/16 APPROVED: 1/28/00           |                 |                |                         |                            |                                  |                   |                  |                  |
| IND E 549                    | HUMAN FACTORS<br>Human Factors in Engineering Design                         | SPR/2009 - | AUT/9999 | 3.0                | .                                              | .               | .              | .                       | .                          | .                                | IND E 549         | ENV H 549        | .                |
| COMMENT:TEMPORARY            |                                                                              |            |          |                    | LAST UPDT: 1/21/09 APPROVED: 1/20/09           |                 |                |                         |                            |                                  |                   |                  |                  |
| IND E 555                    | HEALTH SYSTEMS ENGR<br>HEALTH SYSTEMS ENGINEERING                            | AUT/1999 - | AUT/9999 | 3.0                | .                                              | .               | .              | .                       | .                          | .                                |                   |                  | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                              |            |          |                    | LAST UPDT: 4/28/99 APPROVED: 6/28/93           |                 |                |                         |                            |                                  |                   |                  |                  |
| IND E 564                    | HLTH & SAF PROB-IND<br>Recognition of Health and Safety Problems in Industry | SPR/2008 - | AUT/9999 | 2.0                | .                                              | .               | .              | .                       | .                          | .                                | ENV H 564         | ENV H 564        | .                |
| COMMENT:CHG CREDITS          |                                                                              |            |          |                    | LAST UPDT:11/21/07 APPROVED: 2/26/03           |                 |                |                         |                            |                                  |                   |                  |                  |
| IND E 566                    | INTRO TO ERGON<br>Introduction to Ergonomics                                 | WIN/2006 - | AUT/9999 | 3.0                | .                                              | .               | .              | .                       | .                          | .                                | ENV H 566         | NSG 508          | .                |
| COMMENT: ADD JOINT STATUS    |                                                                              |            |          |                    | LAST UPDT: 3/22/16 APPROVED:11/19/81 ENV H 566 |                 |                |                         |                            |                                  |                   |                  |                  |
| IND E 567                    | APPLIED OCC HEALTH<br>Applied Occupational Health and Safety                 | SPR/2006 - | AUT/9999 | 3.0                | .                                              | .               | .              | .                       | .                          | .                                | ENV H 559         | ENV H 559        | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                              |            |          |                    | LAST UPDT: 1/26/06 APPROVED: 2/26/03 NSG 505   |                 |                |                         |                            |                                  |                   |                  |                  |
| IND E 569                    | OCCUP BIOMECHANICS<br>Occupational Biomechanics                              | AUT/1999 - | AUT/9999 | 4.0                | .                                              | .               | .              | .                       | .                          | .                                | ENV H 569         | ENV H 569        | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                              |            |          |                    | LAST UPDT: 3/23/16 APPROVED:10/22/87           |                 |                |                         |                            |                                  |                   |                  |                  |
| IND E 570                    | SUPPLY CHAIN SYST<br>Supply Chain Systems                                    | AUT/2000 - | AUT/9999 | 3.0                | .                                              | .               | .              | .                       | .                          | .                                |                   |                  | .                |
| COMMENT:CONV OF TEMP TO PERM |                                                                              |            |          |                    | LAST UPDT: 6/02/00 APPROVED: 5/31/00           |                 |                |                         |                            |                                  |                   |                  |                  |

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COLLEGE : J - Engineering  
DEPARTMENT: INDUSTRIAL & SYSTEMS ENGR

| CURRIC | COURSE<br>NUM | TITLE                                                                           | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS |        |        |     |   |       |       |     |     |     |     | RESPONS<br>COURSE | JOINT<br>COURSES |      | O<br>M<br>I<br>T |
|--------|---------------|---------------------------------------------------------------------------------|------------|----------|--------------------|--------|--------|-----|---|-------|-------|-----|-----|-----|-----|-------------------|------------------|------|------------------|
|        |               |                                                                                 |            |          |                    | OVER D | -ALL U | GRD | D | S H F | L I   | V   | L   | E E | W   |                   |                  |      |                  |
|        |               |                                                                                 |            |          |                    | MAX    | P      | SYS | E | UNE   | P & N | A S | W T | C M | S N |                   |                  |      |                  |
| IND E  | 575           | INVENTORY MGMT<br>Inventory Management                                          | SUM/2017 - | AUT/9999 | 5.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   | SCTL              | 503              | SCTL | 503              |
|        |               | COMMENT:END INITIAL DL                                                          |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |
| IND E  | 576           | FAC DES & OP MGMT<br>Facility Design and Operations Management                  | SPR/2014 - | SUM/2017 | 5.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   | SCTL              | 504              | SCTL | 504              |
|        |               | COMMENT:INITIAL DL                                                              |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |
| IND E  | 576           | FAC DES & OP MGMT<br>Facility Design and Operations Management                  | AUT/2017 - | AUT/9999 | 5.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   | SCTL              | 504              | SCTL | 504              |
|        |               | COMMENT:END INITIAL DL                                                          |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |
| IND E  | 581           | NAVIGATING BUSINESS<br>Navigating the Business Environment                      | AUT/2010 - | AUT/9999 | 3.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   |                   |                  |      | .                |
|        |               |                                                                                 |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |
| IND E  | 582           | TECH LEADERSHIP<br>Technical Leadership                                         | WIN/2011 - | AUT/9999 | 3.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   |                   |                  |      | .                |
|        |               |                                                                                 |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |
| IND E  | 583           | DECISION ANALYSIS<br>Decision Analysis in Engineering                           | AUT/2016 - | AUT/9999 | 3.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   |                   |                  |      | .                |
|        |               | COMMENT:END INITIAL DL                                                          |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |
| IND E  | 584           | PROJECT PERFORMANCE<br>Project Performance                                      | WIN/2017 - | AUT/9999 | 3.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   |                   |                  |      | .                |
|        |               | COMMENT:END INITIAL DL                                                          |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |
| IND E  | 585           | SYSTEMS ARCH & MBSE<br>Systems Architecture and Model-Based Systems Engineering | AUT/2016 - | WIN/2019 | 3.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   |                   |                  |      | .                |
|        |               |                                                                                 |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |
| IND E  | 585           | SYSTEMS ARCH & MBSE<br>Systems Architecture and Model-Based Systems Engineering | SPR/2019 - | AUT/9999 | 3.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   |                   |                  |      | .                |
|        |               |                                                                                 |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |
| IND E  | 586           | ENGR RISK MGMT<br>Systems Engineering Risk: Assessment and Management           | SPR/2016 - | SUM/2019 | 3.0                | .      | .      | .   | . | .     | .     | .   | .   | .   | .   |                   |                  |      | .                |
|        |               |                                                                                 |            |          |                    |        |        |     |   |       |       |     |     |     |     |                   |                  |      |                  |

LAST UPDT: 5/12/17

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DEPARTMENT: INDUSTRIAL & SYSTEMS ENGR

| COURSE<br>CURRIC NUM                 | TITLE                                                                 | EFFECTIVE QUARTERS  | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C M<br>T P R | W<br>R<br>G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|--------------------------------------|-----------------------------------------------------------------------|---------------------|--------------------|---------------------------|-----------------|----------------|-------------------------|----------------------------|-----------------------|-------------|-------------------|------------------|------------------|
| IND E 586                            | ENGR RISK MGMT<br>Systems Engineering Risk: Assessment and Management | AUT/2019 - AUT/9999 | 3.0                | .                         | .               | .              | .                       | .                          | .                     | .           |                   |                  | .                |
| LAST UPDT: 5/02/17                   |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| IND E 591                            | SEMINAR<br>Seminar                                                    | AUT/2002 - AUT/9999 | 1.0                | .                         | CR/NC           | .              | 13                      | .                          | .                     | .           |                   |                  | .                |
| LAST UPDT: 5/09/02 APPROVED: 6/28/93 |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:CHG CREDITS, DESCRIPT.       |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| IND E 592                            | SEMINAR<br>Seminar                                                    | AUT/2002 - AUT/9999 | 1.0                | .                         | CR/NC           | .              | 23                      | .                          | .                     | .           |                   |                  | .                |
| LAST UPDT: 5/09/02 APPROVED: 6/28/93 |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:CHG CREDITS, DESCRIPT        |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| IND E 593                            | SEMINAR<br>Seminar                                                    | AUT/2002 - AUT/9999 | 1.0                | .                         | CR/NC           | .              | 33                      | .                          | .                     | .           |                   |                  | .                |
| LAST UPDT:12/27/01 APPROVED: 6/28/93 |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:CHG DESCRIPTION              |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| IND E 594                            | MGMT OF ENGR<br>MANAGEMENT OF ENGINEERING DESIGN                      | AUT/1999 - AUT/9999 | 3.0                | .                         | .               | .              | .                       | .                          | .                     | .           |                   |                  | .                |
| LAST UPDT: 4/28/99 APPROVED: 2/23/96 |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:CONV OF TEMP TO PERM         |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| IND E 595                            | GLBL INT SYS ENGR<br>Global Integrated Systems Engineering            | AUT/2016 - AUT/9999 | 4.0-05.0           | 9.0                       | .               | .              | 11                      | .                          | .                     | .           | IND E 595 A A     | 595              | .                |
| LAST UPDT: 6/13/16 APPROVED: 6/17/08 |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| IND E 596                            | GISE PROJECT<br>Global Integrated Systems Engineering Project         | SPR/2011 - AUT/9999 | 3.0                | .                         | .               | .              | .                       | .                          | .                     | .           | IND E 596 A A     | 596              | .                |
| LAST UPDT: 8/27/10 APPROVED: 8/24/10 |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| IND E 599                            | SPECIAL TOPICS IE<br>Special Topics in Industrial Engineering         | AUT/1999 - AUT/9999 | 1.0-05.0           | 9.0                       | Y               | .              | .                       | .                          | .                     | .           |                   |                  | .                |
| LAST UPDT: 4/20/06 APPROVED: 6/28/93 |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:CONV OF TEMP TO PERM         |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| IND E 600                            | INDEPN DNT STDY/RSCH<br>Independent Study or Research                 | SUM/1998 - AUT/9999 | 0.0                | 999.0                     | .               | .              | 11                      | .                          | .                     | .           |                   |                  | .                |
| LAST UPDT: 4/19/10 APPROVED: 6/23/98 |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| IND E 700                            | MASTERS THESIS<br>Master's Thesis                                     | SUM/1998 - AUT/9999 | 0.0                | 999.0                     | .               | .              | 11                      | .                          | .                     | .           |                   |                  | .                |
| LAST UPDT: 4/19/10 APPROVED: 6/23/98 |                                                                       |                     |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |

COLLEGE : J - Engineering  
DEPARTMENT: INDUSTRL & SYSTEMS ENGR

| DEPARTMENT: INDUSTRIAL & SYSTEMS ENGR |     |                                              |                     |                 |                                      | V   | E            | E             | W         |         | O       |
|---------------------------------------|-----|----------------------------------------------|---------------------|-----------------|--------------------------------------|-----|--------------|---------------|-----------|---------|---------|
| COURSE                                |     |                                              |                     |                 | OVER D                               | D   | S H F        | L I           | L E C Q T | R       | M       |
| CURRIC                                | NUM | TITLE                                        | EFFECTIVE QUARTERS  | QUARTER CREDITS | -ALL U                               | GRD | U N E        | P & N         | C M S N   | RESPONS | JOINT   |
|                                       |     |                                              |                     |                 | MAX P                                | SYS | D HYPH M R E | A S W T P R G |           | COURSE  | COURSES |
| <hr/>                                 |     |                                              |                     |                 |                                      |     |              |               |           |         |         |
| IND E                                 | 800 | DOCTORAL DISSERTATN<br>Doctoral Dissertation | SUM/1998 - AUT/9999 | 0.0             | 999.0                                | .   | . 11 . . .   | . . . . .     |           |         | .       |
|                                       |     |                                              |                     |                 | LAST UPDT: 4/19/10 APPROVED: 6/23/98 |     |              |               |           |         |         |