Bachelor of Science in Industrial Engineering

Concentration Form AY 2022-2023

***Select the courses you wish to count towards the concentration, and obtain your advisor’s signature. Return to Professor Wilson in C146 upon completion of concentration courses, but no later than advising week of your final quarter.***

*\*Requires IEMS faculty approval*

*\*\*Graduate level course; contact the Farley Center*

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| **Management Science** | **Healthcare & Humanitarian Logistics**  | **Entrepreneurship** |
| Econ 339 Labor Economics | Econ 307 Economics of Medical Care | Bus\_Inst 390 Global Innovation |
| Econ 350 Monopoly, Competition, & Pub. Policy | Econ 359 Economics of Nonprofit Organizations | Bus\_Inst 394 Entrepreneurship |
| IEMS 325 Engineering Entrepreneurship | Gbl\_Hlth 301 Intro to International Public Health | IEMS 325 Engineering Entrepreneurship |
| IEMS 340 Field Project Methods | IEMS 365 Analytics for Social Good | ENTREP 380 Financing Entrepreneurial Ventures |
| IEMS 341 Social Networks Analysis | IEMS 383 Service Engineering and Mgmt | ENTREP 395 Special Topics in Entrepreneurship |
| IEMS 342 Organizational Behavior  | IEMS 385 Introduction to Health Systems | ENTREP 419 Technical Entrepreneurship |
| IEMS 343 Project Management | Soc\_Pol 311 Social Policy and the US Health  | ENTREP 430 NUvention: Energy |
| IEMS 344 Whole-brain Leadership |  Care System | ENTREP 473 NUvention: Web +Media |
| IEMS 345 Negotiations for Engineers | \*IEMS 399 | ENTREP 480 NUvention: Nanotechnology |
| LOC 306 Studies in Organizational Change |  | ENTREP 495 NUvention: TBA |
| LOC 310 Orgntn. for Complex Environments | **Statistics and Data Analytics** | \*IEMS 399 |
| LOC 311 Tools for Organizational Analysis |  |
| Sociol 302 Sociology of Organizations | Econ 281 Intro to Applied Econometrics | **Production and Logistics** |
| \*IEMS 399 | Econ 381 Econometrics I |
| **Mathematical Sciences/Graduate Research** | IEMS 304 Statistical Methods for Data Mining | Civ Eng 371 Intro to Transp. Plan & Analysis |
| IEMS 307 Quality Improv. by Experimental Dsgn | Civ Eng 376 Transportation System Operations |
| COMP\_SCI 214 Data Structures and Data Mgmt | IEMS 308 Data Science & Analytics | Econ 355 Transport. Economics and Public Policy |
| ES APPM 346 Modeling and Cmptn in Sci & Eng | IEMS 351 Optimization Methods for Data Sci. | IDEA 344 Manufacturing Engineering Design |
| Math 300-0 Foundations of Higher Mathematics | Mat Sci 391 Process Design | IEMS 381 Supply Chain Modeling and Analysis |
| Math 320-1,2,3 Real Analysis | Mech Eng 359 Reliability Engineering | IEMS 382 Operations Engineering and Mgmt |
| Math 330-1,2,3 Abstract Algebra | Stats 325 Survey Sampling | IEMS 383 Service Engineering and Mgmt |
| Math 364 Game Theory | Stats 350 Regression Analysis | \*IEMS 399 |
| \*IEMS 399 | \*IEMS 399 |  |
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**Four courses of one section must be completed to fulfill that *optional* concentration’s requirements.**

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| Concentration Chosen: |  |
|  | Course Number | Course Title |
| Course 1 |  |  |
| Course 2 |  |  |
| Course 3 |  |  |
| Course 4 |  |  |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ID \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_

Expected Grad Date (Month/Yr) \_\_\_\_\_\_\_\_\_\_\_\_

E-Mail \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student’s Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Advisor’s Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Program Chair’s Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_