



Bachelor of Science

Major: Operations Management

2023-2024 Sample 4-Year Plan

Total Degree Requirements: 120 credits

Student _____ **Student ID#** _____ **Student Phone #** _____

Advisor _____ **Minimum GPA** 2.0 **Minor/Career Interest(s)** _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

First Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CM 130	Management Tools and Analysis		3		
ENGL 101	Composition I (SGR #1)	p. ENGL 033, ENGL 039, or placement	3		
GE 101	Introduction to Engineering and Technical Professions		1		
GE 121	Engineering Design Graphics I	c. One Math course except for 021, 101, 100T	1		
GE 123	Computer Aided Drawing	p. GE 121	1		
MATH 114	College Algebra (SGR #5)	p. placement; MATH 095 or MATH 101	3		
SGR #4	Arts and Humanities/Diversity		3		
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CHEM 106	Chemistry Survey (SGR #6)	p. One collegiate math course	3		
CHEM 106L	Chemistry Survey Lab (SGR #6)	c. CHEM 106	1		
CMST 101	Foundations of Communication (SGR #2)		3		
ET 210	Introduction to Electronic Systems	p. MATH 114	3		
ET 210L	Introduction to Electronic Systems Lab	c. ET 210	1		
MATH 121	Survey of Calculus (SGR #5)	p. MATH 114, MATH 115, or placement	4		
MATH 121L	Survey of Calculus Lab	c. MATH 121	1		
Total Credit Hours			16		

Second Year

Electronics Emphasis

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ET 220	Analog Electronics	p. ET 210	3		
ET 220L	Analog Electronics Lab	c. ET 220	1		
ET 232	Digital Electronics and Microprocessors	p. ET 210	2		
ET 232L	Digital Electronics and Microprocessors Lab	c. ET 232	1		
PHYS 101	Survey of Physics (SGR #6)		3		
PHYS 101L	Survey of Physics Lab (SGR #6)	c. PHYS 101	1		
SGR #3	Social Sciences/Diversity		3		
SGR #4	Arts and Humanities/Diversity		3		
Total Credit Hours			17		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ACCT 210	Principles of Accounting I		3		
ECON 201	Principles of Microeconomics (SGR #3)		3		



Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ENGL 277	Technical Writing in Engineering (SGR #1)	p. GE 101, AST 119, PHYS 119, or PS 119, and ENGL 101 or instructor consent	3		
MNET 367	Production Strategy	p. MNET 150 or MNET 231 or ET 232	2		
MNET 367L	Production Strategy Lab	c. MNET 367	1		
STAT 281	Introduction to Statistics (SGR #5)	p. MATH 103 or higher	3		
Total Credit Hours			15		

Manufacturing Emphasis

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ACCT 210	Principles of Accounting I		3		
ENGL 277	Technical Writing in Engineering (SGR #1)	p. ENGL 101 & GE 101, AST 119, PHYS 119, or PS 119, or instructor consent	3		
MNET 231	Manufacturing Processes I		2		
MNET 231L	Manufacturing Processes I Lab	c. MNET 231	1		
PHYS 101	Survey of Physics (SGR #6)		3		
PHYS 101L	Survey of Physics Lab (SGR #6)	c. PHYS 101	1		
SGR #3	Social Sciences/Diversity		3		
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ECON 201	Principles of Microeconomics (SGR #3)		3		
MNET 367	Production Strategy	p. MNET 150 or MNET 231 or ET 232	2		
MNET 367L	Production Strategy Lab	c. MNET 367	1		
SGR #4	Arts and Humanities/Diversity		3		
STAT 281	Introduction to Statistics (SGR #5)	p. MATH 102 or higher	3		
Technical Elective			3		
Total Credit Hours			15		

Supply Chain Management Emphasis

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ACCT 210	Principles of Accounting I		3		
ENGL 277	Technical Writing in Engineering (SGR #1)	p. ENGL 101 & GE 101, AST 119, PHYS 119, or PS 119, or instructor consent	3		
ET 232-232L or MNET 231-231L	Digital Electronics and Microprocessors & Lab or Manufacturing Processes I & Lab	p. ET 210/L	3		
PHYS 101	Survey of Physics (SGR #6)		4		
PHYS 101L	Survey of Physics Lab	c. PHYS 101	3		
SGR #3	Social Sciences/Diversity		13		
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ECON 201	Principles of Microeconomics (SGR #3)		3		
MNET 367	Production Strategy	p. MNET 150 or MNET 231 or ET 232	2		
MNET 367L	Production Strategy Lab	c. MNET 367	1		
SGR #4	Arts and Humanities/Diversity		3		
STAT 281	Introduction to Statistics (SGR #5)	p. MATH 102 or higher	3		
Technical Elective			3		
Total Credit Hours			15		



Third Year

Electronics Emphasis

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BADM/MGMT 360 or GE 385	Organization and Management or Introduction to Systems Engineering and Management		3		
CSC 325	Management Information Systems		3		
ET 330	Microcontrollers and Networks	p. ET 232 and CSC 150	2		
ET 330L	Microcontroller and Networks Lab	c. ET 330	1		
OM 240	Decision Making Processes in Management	p. MATH 114	3		
Technical Elective			3		
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ET 380	Circuit Boards and Design	p. ET 220	2		
ET 380L	Circuit Boards and Design Lab	c. ET 380	1		
GE 231	Technology, Society, and Ethics		3		
OM 425 or OM 465	Production and Operations Management or Quality Control Applications	p. STAT 281 and MNET 367/L or p. OM 462, STAT 281 or STAT 381	3		
OM 462	Quality Management	p. STAT 281 or STAT 381	3		
OM 490	Seminar		1		
OM 494	Internship	c. consent	1		
Total Credit Hours			14		

Manufacturing Emphasis

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BADM/MGMT 360 or GE 385	Organization and Management or Introduction to Systems Engineering and Management		3		
ET 451	Industrial Controls and PLCs	p. ET 210	2		
ET 451L	Industrial Controls and PLCs Lab	c. ET 451	1		
GE 425	Occupational Safety and Health Management		3		
OM 240	Decision Making Processes in Management	p. MATH 114	3		
Technical Elective			3		
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 325	Management Information Systems		3		
FIN 310	Business Finance	p. ACCT 211	3		
GE 231	Technology, Society, and Ethics		3		
OM 425	Production and Operations Management	p. STAT 281 and MNET 367/L	3		
OM 462	Quality Management	p. STAT 281 or STAT 381	3		
Total Credit Hours			15		

Supply Chain Management Emphasis

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BADM/MGMT 360 or GE 385	Organization and Management or Introduction to Systems Engineering and Management		3		
ET 451	Industrial Controls and PLCs	p. ET 210	2		
ET 451L	Industrial Controls and PLCs Lab	c. ET 451	1		
GE 425	Occupational Safety and Health Management		3		
OM 240	Decision Making Processes in Management	p. MATH 114	3		
Technical Elective			3		
Total Credit Hours			15		



Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CSC 325	Management Information Systems		3		
FIN 310 or MNET 468	Business Finance or Manufacturing Plant Management	p. ACCT 211 or p. MNET 367/L	3		
GE 231	Technology, Society, and Ethics		3		
OM 425	Production and Operations Management	p. STAT 281 and MNET 367/L	3		
OM 462	Quality Management	p. STAT 281 or STAT 381	3		
		Total Credit Hours	15		

Fourth Year

Electronics Emphasis

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ET 451	Industrial Controls and PLCs	p. ET 210	3		
ET 451L	Industrial Controls and PLCs Lab	c. ET 451	1		
GE 425	Occupational Safety and Health Management		3		
MNET/OM 460	Engineering Economic Analysis	p. MATH 114	3		
OM 463	Supply Chain Management	p. >=C OM 425; STAT 281 or STAT 318	3		
OM 470	Project Management	p. ENGL 201 or ENGL 277, senior standing, or instructor approval	2		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
FIN 310 or MNET 468	Business Finance or Manufacturing Plant Management	p. ACCT 211 or p. MNET 367/L	3		
HRM 460 or LDR 435	Human Resource Management or Organizational Leadership and Team Development	p. BADM/MGMT 360 or p. junior standing	3		
OM 471	Capstone Experience	p. OM 470 or GE 469	2		
Technical Elective			3		
Technical Elective			3		
		Total Credit Hours	14		

Manufacturing Emphasis

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
HRM 460 or LDR 435	Human Resource Management or Organizational Leadership and Team Development	p. BADM/MGMT 360 or p. junior standing	3		
MNET/OM 460	Engineering Economic Analysis	p. MATH 114	3		
OM 463	Supply Chain Management	p. >=C in OM 425; STAT 281 or STAT 381	3		
OM 470	Project Management	p. ENGL 201 or ENGL 277; senior standing, or instructor approval	2		
Technical Elective			3		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MNET 468	Manufacturing Plant Management	p. MNET 367/L	3		
OM 465	Quality Control Applications	p. OM 462; STAT 281 or STAT 381	3		
OM 471	Capstone Experience	p. OM 470 or GE 469	2		
OM 490	Seminar		1		
OM 494	Internship	c. consent	2		
Technical Elective			3		
		Total Credit Hours	14		



Supply Chain Management Emphasis

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
HRM 460 or LDR 435	Human Resource Management or Organizational Leadership and Team Development	p. BADM/MGMT 360 or p. junior standing	3		
MNET/OM 460	Engineering Economic Analysis	p. MATH 114	3		
OM 463	Supply Chain Management	p. >=C in OM 425; STAT 281 or STAT 381	3		
OM 470	Project Management	p. ENGL 201 or ENGL 277; senior standing, or instructor approval	2		
Technical Elective			3		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
OM 415	Logistics and Transportation Management	p. STAT 281	3		
OM 435	Warehouse Management	p. MNET 367/L	3		
OM 471	Capstone Experience	p. OM 470 or GE 469	2		
OM 490	Seminar		1		
OM 494	Internship	c. consent	2		
Technical Elective			3		
		Total Credit Hours	14		

Comments/Notes

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the [Honors program requirements](#).