

**Undergraduate Program Name:** Mathematics, BS, with Concentration in Pure Mathematics (2021)  
**Graduate Program Name:** Systems Engineering MSSENG

Double Owl Scholars will NOT take the following Mathematics, BS courses:	In their place, Double Owl Scholars will take the following Systems Engineering MSSENG courses:
Related Studies	SYE 6010 Project Management Processes
Related Studies	SYE 6025 Economic Decision Analysis
Related Studies	Any SYE Elective

Year 1 - Fall	Credits	Year 1 - Spring	Credits
GenEd A1 (ENGL 1101)	3	GenEd A1 (ENG 1102)	3
GenEd A2 (MATH 1113)	3	GenEd B2	3
GenEd B1 (ECON 1000)	2	GenEd D1 (MATH 1190)	4
GenEd C1	3	GenEd E2	3
GenEd E1	3	CSE 1321/L	4
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>17</i>
Year 2 - Fall	Credits	Year 2 - Spring	Credits
MATH 2202	4	MATH 2203	4
SCM 2000	3	MATH 2390	3
GenEd C2	3	MATH 2306	3
GenEd D2	4	GenEd D2	4
GenEd E3	3	GenEd E4	3
<i>Total</i>	<i>17</i>	<i>Total</i>	<i>17</i>
Year 3 - Fall	Credits	Year 3 - Spring	Credits
MATH 3332	3	MATH 3322 or MATH 3324	3
MATH 3204	3	MATH 3261 or MATH 3262	3
MATH 3260	3	MATH 4361	3
Free Elective	4	MATH elective	3
Free Elective	3		
<i>Total</i>	<i>16</i>	<i>Total</i>	<i>12</i>
Year 4 - Fall	Credits	Year 4 - Spring	Credits
MATH 4381	3	MATH 4382	3
MATH 4391	3	MATH 3496 or MATH 4596	3
MATH 4260	3	MATH 4362	3
SYE 6010	3	SYE 6025	3
SYE Graduate Elective	3		
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>12</i>
Year 5 - Fall	Credits	Year 5 - Spring	Credits
QA 6610	3	SYE 6031	3
Graduate Elective	3	SYE 6055	3
Graduate Elective	3	Graduate Elective	3
Optional Fall Graduate Elective	3	Optional Spring Graduate Elective	3
<i>Total</i>	<i>9 or 12</i>	<i>Total</i>	<i>9 or 12</i>
		<b>Pathway Total</b>	<b>141</b>

**Undergraduate Program Name:** Mathematics, BS, with Concentration in Applied and Computational Mathematics (2021)

**Graduate Program Name:** Systems Engineering MSSENG

Double Owl Scholars will NOT take the following Mathematics, BS courses:	In their place, Double Owl Scholars will take the following Systems Engineering MSSENG courses:
Related Studies	SYE 6010 Project Management Processes
Related Studies	SYE 6025 Economic Decision Analysis
Related Studies	Any SYE Elective

<b>Year 1 - Fall</b>	<b>Credits</b>	<b>Year 1 - Spring</b>	<b>Credits</b>
GenEd A1 (ENGL 1101)	3	GenEd A1 (ENG 1102)	3
GenEd A2 (MATH 1113)	3	GenEd B2	3
GenEd B1 (ECON 1000)	2	GenEd D1 (MATH 1190)	4
GenEd C1	3	GenEd E2	3
GenEd E1	3	CSE 1321/L	4
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>17</i>
<b>Year 2 - Fall</b>	<b>Credits</b>	<b>Year 2 - Spring</b>	<b>Credits</b>
MATH 2202	4	MATH 2203	4
SCM 2000	3	MATH 2390	3
GenEd C2	3	MATH 2306	3
GenEd D2	4	GenEd D2	4
GenEd E3	3	GenEd E4	3
<i>Total</i>	<i>17</i>	<i>Total</i>	<i>17</i>
<b>Year 3 - Fall</b>	<b>Credits</b>	<b>Year 3 - Spring</b>	<b>Credits</b>
MATH 3332	3	MATH 3322 or MATH 3324	3
MATH 3204	3	MATH 3261	3
MATH 3260	3	MATH 3262	3
Free Elective	4	MATH 4361	3
MATH Elective	3	Free Elective	3
<i>Total</i>	<i>16</i>	<i>Total</i>	<i>15</i>
<b>Year 4 - Fall</b>	<b>Credits</b>	<b>Year 4 - Spring</b>	<b>Credits</b>
MATH 4381	3	MATH 4382 or MATH 4362	3
MATH 4310	3	MATH 4391	3
SYE 6010		MATH 4260	3
SYE Graduate Elective		SYE 6025	3
<i>Total</i>	<i>12</i>	<i>Total</i>	<i>12</i>
<b>Year 5 - Fall</b>	<b>Credits</b>	<b>Year 5 - Spring</b>	<b>Credits</b>
QA 6610	3	SYE 6031	3
Graduate Elective	3	SYE 6055	3
Graduate Elective	3	Graduate Elective	3
Optional Fall Graduate Elective	3	Optional Spring Graduate Elective	3
<i>Total</i>	<i>9 or 12</i>	<i>Total</i>	<i>9 or 12</i>
		<b>Pathway Total</b>	<b>141</b>

**Undergraduate Program Name:** B.S. in Mathematics with Concentration in Discrete Mathematics and Operations Research (2021)

**Graduate Program Name:** Systems Engineering MSSENG

Double Owl Scholars will NOT take the following Mathematics, BS courses:	In their place, Double Owl Scholars will take the following Systems Engineering MSSENG courses:
Related Studies	SYE 6010 Project Management Processes
Related Studies	SYE 6025 Economic Decision Analysis
Related Studies	Any SYE Elective

<b>Year 1 - Fall</b>	<b>Credits</b>	<b>Year 1 - Spring</b>	<b>Credits</b>
GenEd A1 (ENGL 1101)	3	GenEd A1 (ENG 1102)	3
GenEd A2 (MATH 1113)	3	GenEd B2	3
GenEd B1 (ECON 1000)	2	GenEd D1 (MATH 1190)	4
GenEd C1	3	GenEd E2	3
GenEd E1	3	CSE 1321/L	4
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>17</i>
<b>Year 2 - Fall</b>	<b>Credits</b>	<b>Year 2 - Spring</b>	<b>Credits</b>
MATH 2202	4	MATH 2203	4
SCM 2000	3	MATH 2390	3
GenEd C2	3	MATH 2306	3
GenEd D2	4	GenEd D2	4
GenEd E3	3	GenEd E4	3
<i>Total</i>	<i>17</i>	<i>Total</i>	<i>17</i>
<b>Year 3 - Fall</b>	<b>Credits</b>	<b>Year 3 - Spring</b>	<b>Credits</b>
MATH 3332	3	MATH 3322	3
MATH 3204	3	MATH 3324	3
MATH 3260	3	MATH 3272	3
Free Elective	3	MATH 3261 or MATH 3262	3
Free Elective	4	MATH Elective	3
<i>Total</i>	<i>16</i>	<i>Total</i>	<i>15</i>
<b>Year 4 - Fall</b>	<b>Credits</b>	<b>Year 4 - Spring</b>	<b>Credits</b>
MATH 4361	3	MATH 4382 or MATH 4362	3
MATH 4381	3	MATH 4260	3
ISYE 4200		SYE 6025	3
SYE 6010	3		
SYE Graduate Elective	3		
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>9</i>
<b>Year 5 - Fall</b>	<b>Credits</b>	<b>Year 5 - Spring</b>	<b>Credits</b>
QA 6610	3	SYE 6031	3
Graduate Elective	3	SYE 6055	3
Graduate Elective	3	Graduate Elective	3
Optional Fall Graduate Elective	3	Optional Spring Graduate Elective	3
<i>Total</i>	<i>9 or 12</i>	<i>Total</i>	<i>9 or 12</i>
		<b>Pathway Total</b>	<b>141</b>

**Undergraduate Program Name:** B.S. in Mathematics with Minor in Statistics (2021)

**Graduate Program Name:** Systems Engineering MSSENG

Double Owl Scholars will NOT take the following Mathematics, BS courses:	In their place, Double Owl Scholars will take the following Systems Engineering MSSENG courses:
Related Studies	SYE 6010 Project Management Processes
Related Studies	SYE 6025 Economic Decision Analysis
Related Studies	Any SYE Elective

<b>Year 1 - Fall</b>	<b>Credits</b>	<b>Year 1 - Spring</b>	<b>Credits</b>
GenEd A1 (ENGL 1101)	3	GenEd A1 (ENG 1102)	3
GenEd A2 (MATH 1113)	3	GenEd B2	3
GenEd B1 (ECON 1000)	2	GenEd D1 (MATH 1190)	4
GenEd C1	3	GenEd E2	3
GenEd E1	3	CSE 1321/L	4
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>17</i>
<b>Year 2 - Fall</b>	<b>Credits</b>	<b>Year 2 - Spring</b>	<b>Credits</b>
MATH 2202	4	MATH 2203	4
SCM 2000	3	MATH 2390	3
GenEd C2	3	MATH 2306	3
GenEd D2	4	GenEd D2	4
GenEd E3	3	GenEd E4	3
<i>Total</i>	<i>17</i>	<i>Total</i>	<i>17</i>
<b>Year 3 - Fall</b>	<b>Credits</b>	<b>Year 3 - Spring</b>	<b>Credits</b>
MATH 3332	3	MATH 3322 or MATH 3324	3
MATH 3204	3	MATH 3161 or MATH 3262	3
MATH 3260	3	Stat minor course	3
Free Elective	3	Stat minor course	3
Free Elective	4	MATH Elective	3
<i>Total</i>	<i>16</i>	<i>Total</i>	<i>15</i>
<b>Year 4 - Fall</b>	<b>Credits</b>	<b>Year 4 - Spring</b>	<b>Credits</b>
MATH 4361	3	Stat minor course	3
MATH 4381	3	Stat minor course	3
SYE 6010	3	Stat minor course	3
SYE Graduate Elective	3	SYE 6025	3
<i>Total</i>	<i>12</i>	<i>Total</i>	<i>12</i>
<b>Year 5 - Fall</b>	<b>Credits</b>	<b>Year 5 - Spring</b>	<b>Credits</b>
QA 6610	3	SYE 6031	3
Graduate Elective	3	SYE 6055	3
Graduate Elective	3	Graduate Elective	3
Optional Fall Graduate Elective	3	Optional Spring Graduate Elective	3
<i>Total</i>	<i>9 or 12</i>	<i>Total</i>	<i>9 or 12</i>
		<b>Pathway Total</b>	<b>141</b>