

Undergraduate Program Name: Mathematics, BS, with Concentration in Pure Mathematics (2021)

Graduate Program Name: Intelligent Robotic Systems MS

Double Owl Scholars will NOT take the following Mathematics, BS courses:	In their place, Double Owl Scholars will take 9 hours from among the following Intelligent Robotic Systems MS courses:
Related Studies	MTRE 6100: Advanced Robot Programming
Related Studies	MTRE 6740: Soft Robotics
Related Studies	MTRE 6750: Ethics in Robotics: The Ethical and Social Implications of Robotics

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	Upper Division 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
MTRE 6100	3	MTRE 6750	3
MTRE 6740	3		
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>12</i>
Year 5 - Summer	Credits		
MTRE 6200	3		
<i>Total</i>	<i>3</i>		
Year 5 - Fall	Credits	Year 5 - Spring	Credits
MTRE 6300	3	MTRE 6400	3
CS 7267	3	CS 7367	3
MTRE 6720	3	MTRE 6710 or MTRE 6800 or CS 7375	3
<i>Total</i>	<i>9</i>	<i>Total</i>	<i>9</i>
		PATHWAY TOTAL	141

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

Graduate Program Name: Intelligent Robotic Systems MS

Double Owl Scholars will NOT take the following Mathematics, BS courses:	In their place, Double Owl Scholars will take 9 hours from among the following Intelligent Robotic Systems MS courses:
Related Studies	MTRE 6100: Advanced Robot Programming
Related Studies	MTRE 6740: Soft Robotics
Related Studies	MTRE 6750: Ethics in Robotics: The Ethical and Social Implications of Robotics

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	3
MATH 3260	3	MATH 3262	3
Free Elective	4	MATH 4361	3
Upper Division elective	3	Free Elective	3
<i>Total</i>	<i>16</i>	<i>Total</i>	<i>15</i>
Year 4 - Fall	Credits	Year 4 - Spring	Credits
MATH 4381	3	MATH 4382 or MATH 4362	3
MATH 4310	3	MATH 4391	3
MTRE 6100	3	MATH 4260	3
MTRE 6740	3	MTRE 6750	3
<i>Total</i>	<i>12</i>	<i>Total</i>	<i>12</i>
Year 5 – Summer	Credits		
MTRE 6200	3		
<i>Total</i>	<i>3</i>		
Year 5 - Fall	Credits	Year 5 - Spring	Credits
MTRE 6300	3	MTRE 6400	3
CS 7267	3	CS 7367	3
MTRE 6720	3	MTRE 6710 or MTRE 6800 or CS 7375	3
<i>Total</i>	<i>9</i>	<i>Total</i>	<i>9</i>
		PATHWAY TOTAL	141

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

Graduate Program Name: Intelligent Robotic Systems MS

Double Owl Scholars will NOT take the following Mathematics, BS courses:	In their place, Double Owl Scholars will take 9 hours from among the following Intelligent Robotic Systems MS courses:
Related Studies	MTRE 6100: Advanced Robot Programming
Related Studies	MTRE 6740: Soft Robotics
Related Studies	MTRE 6750: Ethics in Robotics: The Ethical and Social Implications of Robotics

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	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	Upper Division elective (ISYE 4500 or CS 4306) ¹	3
<i>Total</i>	<i>16</i>	<i>Total</i>	<i>15</i>
Year 4 - Fall	Credits	Year 4 - Spring	Credits
MATH 4361	3	MATH 4382 or MATH 4362	3
MATH 4381	3	MATH 4260 or ISYE 3600	3
ISYE 4200	3	MTRE 6750	3
MTRE 6100	3		
MTRE 6740	3		
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>9</i>
Year 5 – Summer	Credits		
MTRE 6200	3		
<i>Total</i>	<i>3</i>		
Year 5 - Fall	Credits	Year 5 - Spring	Credits

¹ Taking courses shown in green will result in fulfilling the requirements of the Operations Research Minor. To receive the minor, it must be declared and completed prior to or at the same time as the bachelor's degree.

MTRE 6300	3	MTRE 6400	3
CS 7267	3	CS 7367	3
MTRE 6720	3	MTRE 6710 or MTRE 6800 or CS 7375	3
<i>Total</i>	9	<i>Total</i>	9
		PATHWAY TOTAL	141

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

Graduate Program Name: Intelligent Robotic Systems MS

Double Owl Scholars will NOT take the following Mathematics, BS courses:	In their place, Double Owl Scholars will take 9 hours from among the following Intelligent Robotic Systems MS courses:
Related Studies	MTRE 6100: Advanced Robot Programming
Related Studies	MTRE 6740: Soft Robotics
Related Studies	MTRE 6750: Ethics in Robotics: The Ethical and Social Implications of Robotics

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 3161 or MATH 3262	3
MATH 3260	3	STAT 3120 or STAT 3125	3
STAT 3010²	3	Free Elective	3
Free Elective	4	Upper Division elective	3
<i>Total</i>	<i>16</i>	<i>Total</i>	<i>15</i>
Year 4 - Fall	Credits	Year 4 - Spring	Credits
MATH 4361	3	STAT 3030	3
MATH 4381	3	Upper Division STAT elective	3
MTRE 6100	3	Upper Division STAT elective	3
MTRE 6740	3	MTRE 6750	3
<i>Total</i>	<i>12</i>	<i>Total</i>	<i>12</i>
Year 5 – Summer	Credits		
MTRE 6200	3		
<i>Total</i>	<i>3</i>		
Year 5 - Fall	Credits	Year 5 - Spring	Credits
MTRE 6300	3	MTRE 6400	3
CS 7267	3	CS 7367	3
MTRE 6720	3	MTRE 6710 or MTRE 6800 or CS 7375	3

² Taking courses shown in **green** will result in fulfilling the requirements of the Applied Statistics and Analytics Minor. To receive the minor, it must be declared and completed prior to or at the same time as the bachelor's degree.

<i>Total</i>	9	<i>Total</i>	9
		PATHWAY TOTAL	141