



KENNESAW STATE UNIVERSITY

**Double Owl Pathway of Study**  
**EFFECT TERM:** Summer 2023

**Undergraduate Program Name:** Mechatronics Engineering, BS  
**Graduate Program Name:** Intelligent Robotic Systems, MS

Pathway Description: BS MTRE to MS IRS

**Course Pairs:**

<b>Double Owl Scholars will NOT take the following MTRE courses:</b>	<b>In their place, Double Owl Scholars will take the following IRS courses:</b>
MTRE Technical Electives (7 credits)	Students may choose from the following courses: MTRE 6710, MTRE 6720, MTRE 6740, and MTRE 6750.
	Their first option is to take two from this list, plus either ENGR 4402 – Engineering Ethics or MTRE 4400 – Directed Research (1 credit)
	Their second option is to take three from this list. This would increase the credit hours for the undergraduate degree by 2 credits, but decrease the credits needed for the graduate degree.

<b>Year 1 - Fall</b>	<b>Credits</b>	<b>Year 1 - Spring</b>	<b>Credits</b>
ENGL 1101	3	ENGL 1102	3
MATH 1190	4	MATH 2202	4
CHEM 1211/L	4	PHYS 2211/L	4
ENGR 1000	1	MTRE 1001L	1
Gen. Ed. Area B2	3	Areas E1 and B1	3 and 2
<b>TOTAL SEMESTER CREDITS</b>	<b>15</b>	<b>TOTAL SEMESTER CREDITS</b>	<b>17</b>
<b>Year 2 - Fall</b>	<b>Credits</b>	<b>Year 2 - Spring</b>	<b>Credits</b>
CSE 1321/L	4	MTRE 2710/L	3
MATH 2203	4	MATH 2306	3
PHYS 2212/L	4	MTRE 2110/L	4
EDG 1211	3	ENGR 2214	3
Area E2	3	Area C1	3
<b>TOTAL SEMESTER CREDITS</b>	<b>18</b>	<b>TOTAL SEMESTER CREDITS</b>	<b>16</b>
<b>Year 3 - Fall</b>	<b>Credits</b>	<b>Year 3 - Spring</b>	<b>Credits</b>
MTRE 3720/L	3	MTRE 3810/L	4
MATH 3260	3	MTRE 3110/L	3
EE 2501	4	MTRE 3610/L	4

ENGR 3122	3	MTRE 6710, 6720, 6740, or 6750	3
Area C2	3	ENGR 4402 or MTRE 4400	1
<b>TOTAL SEMESTER CREDITS</b>	<b>16</b>	<b>TOTAL SEMESTER CREDITS</b>	<b>15</b>
<b>Year 4 - Fall</b>	<b>Credits</b>	<b>Year 4 - Spring</b>	<b>Credits</b>
MTRE 4911	2	MTRE 4912	2
MTRE 4610/L	4	MTRE 4820/L	4
MTRE 4710/L	4	MTRE 6710, 6720, 6740, or 6750	3
MTRE 4810/L	4	Area A3	3
ENGR 3131	3	Area E4	3
<b>TOTAL SEMESTER CREDITS</b>	<b>17</b>	<b>TOTAL SEMESTER CREDITS</b>	<b>15</b>
<b>Year 5 - Fall</b>	<b>Credits</b>	<b>Year 5 - Spring</b>	<b>Credits</b>
MTRE 6100	3	MTRE 6400	3
MTRE 6740*	3*	MTRE 6720*	3*
CS 7267	3	CS 7367	3
MTRE 6300	3	MTRE 6750*	3*
<b>TOTAL SEMESTER CREDITS</b>	<b>12*</b>	<b>TOTAL SEMESTER CREDITS</b>	<b>12*</b>
<b>Year 5 - Summer</b>	<b>Credits</b>	<b>Year 6 - Spring</b>	<b>Credits</b>
MTRE 6200	3		
MTRE 6710*	3*		
<b>TOTAL SEMESTER CREDITS</b>	<b>6*</b>	<b>TOTAL SEMESTER CREDITS</b>	<b>0</b>

\* Indicates the value would change if the student chose to take this for BS MTRE technical elective credit

**PATHWAY TOTAL: 153**