



# Integrated Science

## Secondary

### Teaching Comprehensive Teaching Major

This sheet lists the major endorsement requirements for secondary teacher certification. Integrated Science is NOT a degree program. The requirements for the B.S. in Biology, Chemistry or Biochemistry may be different from the requirements for certification. Therefore work with your advisor in the College of Engineering & Science to make sure that you are completing all of the requirements for your BS in Biology, Chemistry or Biochemistry.

## COMPREHENSIVE MAJOR

Course No.	Course Title	Credit Hours	Term/Equivalent Course & School	Grade
BIO 1030	Environmental Science	3		
BIO 1200	General Biology I	3		
BIO 1210	General Biology Laboratory I	2		
BIO 1220	General Biology II	3		
BIO 1230	General Biology Laboratory II	2		
CHM 1070	General Chemistry I	3		
CHM 1100	General Chemistry Laboratory I	1		
CHM 1080	General Chemistry II	3		
CHM 1120	Inorganic and Analytical Chemistry Lab	1		
CHM 2270	Organic Chemistry I	3		
CHM 2250	Organic Chemistry Laboratory I	2		
CHM 4700	Basic Biochemistry	3		
GEO 2110	World Regional Geography	3		
PHY 1080	History of the Universe	3		
PHY 1300	General Physics I	3		
PHY 1310	General Physics Laboratory I	1		
PHY 1320	General Physics II	3		
PHY 1330	General Physics Laboratory II	1		
<b>Choose 6 additional credit hours from the following:</b>				
BIO 2700	Genetics	3		
BIO 4200	Evolution	3		
<b>BIO 4480*</b>	<b>Ecology</b>	3		
CHM 2290	Organic Chemistry II	3		
CHM 2300	Organic Chemistry Laboratory II	1		
CHM 3870	Quantitative Analysis	3		
<b>Total Credits Required:</b>		<b>53*</b>		<b>GPA:</b>

All Secondary majors must also take EDU 4750 Secondary Science Methods.

**\*Note: The Education Department advise students to take BIO 4480 Ecology in preparation for the MTTC.**



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### Teaching Group Teaching Major

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### GROUP MAJOR

Course No.	Course Title	Credit Hours	Term/Equivalent Course & School	Grade
BIO 1200	General Biology I	3		
BIO 1210	General Biology Laboratory I	2		
BIO 1220	General Biology II	3		
BIO 1230	General Biology Laboratory II	2		
CHM 1070	General Chemistry I	3		
CHM 1100	General Chemistry Laboratory I	1		
CHM 1080	General Chemistry II	3		
CHM 1120	Inorganic and Analytical Chemistry Laboratory	1		
CHM 2270	Organic Chemistry I	3		
CHM 2250	Organic Chemistry Laboratory I	1		
CHM 4700	Basic Biochemistry	3		
GEO 2110	World Regional Geography	3		
PHY 1080	History of the Universe	3		
PHY 1300	General Physics I	3		
PHY 1310	General Physics Laboratory I	1		
PHY 1320	General Physics II	3		
PHY 1330	General Physics Laboratory II	1		
<b>Total Credits Required:</b>		<b>40*</b>		<b>GPA:</b>

All Secondary majors must also take EDU 4750 Secondary Science Methods.

**\*Note: The Education Department advises students to take BIO 4480 Ecology in preparation for the MTTC.**