



📌 **Refer to this Pathways Map** to see how your transfer credits apply toward your bachelor's degree requirements 🎓  
❓ **Have questions?** Contact the Office of Admissions: 📞 256-233-8130 📧 [admissions@athens.edu](mailto:admissions@athens.edu)

**Level** Undergraduate **Classification** Freshman **Major** [Biology - Bioinformatics Option](#) **Program** Bachelor of Science - Arts & Sciences  
**College** College of Arts and Sciences

## Bachelor of Science

INCOMPLETE

Credits required: 124   Credits applied: 0   Catalog year: Fall 2025   GPA: 0.000

You currently have 0 hours earned at Athens State.

- |   |  |
|---|--|
| <input type="radio"/> Minimum 124 hours required  | <b>Still needed:</b> A minimum of 124 hours are required. You currently have 0, you still need 124 more hours. |
| <input type="radio"/> Minimum 32 hours (25% of degree requirements) at Athens State       | <b>Still needed:</b> You have 0 but still need a minimum of 32 hours.  |
| <input type="radio"/> A minimum institutional GPA of 2.00 is required                     |  |
| <input type="radio"/> COLLEGE OF ARTS AND SCIENCES AREA I-IV REQUIREMENTS                 |  |
| <input type="radio"/> College of Arts and Sci General Education (Areas I-IV) Requirements | <b>Still needed:</b> See <a href="#">College of Arts and Sciences Gen Eds (Areas I-IV)</a> section             |
| <input type="radio"/> College of Arts and Sci Pre-Professional (Area V) Requirements      | <b>Still needed:</b> See <a href="#">College of Arts and Sciences Area V-PreProf</a> section                   |
| <input type="radio"/> Major Requirements  | <b>Still needed:</b> See <a href="#">Major in Biology - Bioinformatics Option</a> section                      |
| <input type="radio"/> General Electives Requirement                                       | <b>Still needed:</b> See <a href="#">General Electives</a> section   |

### Blocks included in this block

[College of Arts and Sciences Gen Eds \(Areas I-IV\)](#)  
[Sequence in Literature or History](#)  
[College of Arts and Sciences Area V-PreProf](#)  
[Major in Biology - Bioinformatics Option](#)  
[General Electives](#)

## College of Arts and Sciences Gen Eds (Areas I-IV)

INCOMPLETE

Credits required: 41   Credits applied: 0   Catalog year: Fall 2025   GPA: 0.000

**Unmet conditions for this set of requirements:**   41 hours are required. You currently have 0, you still need 41 more hours.

### ☐ AREA I: WRITTEN COMPOSITION

- |   |  |
|---|--|
| <input type="radio"/> Written Composition I | <b>Still needed:</b> 3 Credits in <b>ENG 101</b> |
|---|--|

<input type="radio"/> Written Composition II	Still needed:	3 Credits in <b>ENG</b> 102
<hr/>		
<input type="radio"/> AREA II: HUMANITIES AND FINE ARTS		
<hr/>		
<input type="radio"/> One Fine Arts course or equivalent	Still needed:	3 Credits in <b>ART</b> 100 or 203 or 204 or <b>HUM</b> 130 or <b>MUS</b> 101 or <b>THR</b> 120 or 126
<hr/>		
<input type="radio"/> One Literature Course	Still needed:	3 Credits in <b>ENG</b> 251 or 252 or 261 or 262 or 271 or 272
<hr/>		
<input type="radio"/> Other Courses in Humanities and/or Fine Arts	Still needed:	6 Credits in <b>ART</b> 100 or 203 or 204 or <b>ENG</b> 251 or 252 or 261 or 262 or 271 or 272 or <b>FRN</b> 101 or 102 or 201 or 202 or <b>GRN</b> 101 or 102 or 201 or 202 or <b>HUM</b> 101 or 102 or 130 or 299 or <b>IDH</b> 106 or 208 or 214 or <b>IDS</b> 102 or <b>JPN</b> 101 or 102 or <b>MUS</b> 101 or <b>PHL</b> 106 or 206 or <b>REL</b> 100 or 151 or 152 or <b>SPA</b> 101 or 102 or 201 or 202 or <b>SPH</b> 106 or 107 or <b>THR</b> 120 or 126
<hr/>		
<input type="radio"/> AREA III: MATHEMATICS AND NATURAL SCIENCES		
<hr/>		
<input type="radio"/> Principles of Biology I w/Lab or Cells & Genes in the News w/Lab	Still needed:	4 Credits or 2 Classes in <b>BIO</b> 103 or 103L
<hr/>		
<input type="radio"/> Principles of Biology II w/Lab or Diversity & Adaptations w/Lab	Still needed:	4 Credits or 2 Classes in <b>BIO</b> 104 or 104L
<hr/>		
<input type="radio"/> Precalculus Algebra or higher mathematics course	Still needed:	3 Credits in <b>MTH</b> 112 or 113 or 115 or 120 or 125 or 126 or 227
<hr/>		
<input type="radio"/> AREA IV: HISTORY, SOCIAL, AND BEHAVIORAL SCIENCES		
<hr/>		
<input type="radio"/> One History Course	Still needed:	3 Credits in <b>HIS</b> 101 or 102 or 121 or 122 or 201 or 202
<hr/>		
<input type="radio"/> Other History, Social and Behavioral Science Courses	Still needed:	9 Credits in <b>ANT</b> 200 or 210 or 220 or 226 or 230 or <b>ECO</b> 231 or 232 or <b>GEO</b> 100 or 201 or <b>HIS</b> 101 or 102 or 121 or 122 or 201 or 202 or <b>IDH</b> 206 or <b>POL</b> 200 or 211 or 220 or <b>PSY</b> 200 or 210 or <b>SPH</b> 116 or <b>SOC</b> 200 or 210
<hr/>		
<input type="radio"/> Sequence in Literature or History	Still needed:	See <a href="#">Sequence in Literature or History</a> section

## Sequence in Literature or History


INCOMPLETE

Classes required: 2    Classes applied: 0    Catalog year: Fall 2025    GPA: 0.000

**Unmet conditions for this set of requirements:** 2 Classes constituting a sequence in literature or history are required. You currently have 0, you still need 2 more classes.

☐ LITERATURE OR HISTORY SEQUENCE    **Still needed:** Choose from 1 of the following:

☐ AMERICAN LITERATURE SEQUENCE    You must complete all of the following:

<input type="radio"/> American Literature I	3 Credits or 1 Class in <b>ENG 251</b>
<input type="radio"/> American Literature II	3 Credits or 1 Class in <b>ENG 252</b>
<input type="radio"/> ENGLISH LITERATURE SEQUENCE	You must complete all of the following:
<input type="radio"/> English Literature I	3 Credits or 1 Class in <b>ENG 261</b>
<input type="radio"/> English Literature II	3 Credits or 1 Class in <b>ENG 262</b>
<input type="radio"/> WORLD LITERATURE SEQUENCE	You must complete all of the following:
<input type="radio"/> World Literature I or Major Authors I	3 Credits or 1 Class in <b>ENG 271</b>
<input type="radio"/> World Literature II or Major Authors II	3 Credits or 1 Class in <b>ENG 272</b>
<input type="radio"/> WESTERN CIV/EUROPEAN HISTORY SEQUENCE	You must complete all of the following:
<input type="radio"/> Western Civ I, Early Mod. Europe, Rev. Europe, or 19th Cent. Europe	3 Credits or 1 Class in <b>HIS 101</b>
<input type="radio"/> Western Civ II, 19th Cent. Europe, or 20th Cent. Europe	3 Credits or 1 Class in <b>HIS 102</b>
<input type="radio"/> WORLD HISTORY SEQUENCE	You must complete all of the following:
<input type="radio"/> World History I	3 Credits or 1 Class in <b>HIS 121</b>
<input type="radio"/> World History II	3 Credits or 1 Class in <b>HIS 122</b>
<input type="radio"/> UNITED STATES HISTORY SEQUENCE	You must complete all of the following:
<input type="radio"/> US History I, Rev. America, or American Expansion 19th Cent.	3 Credits or 1 Class in <b>HIS 201</b>
<input type="radio"/> US History II, American Expansion 19th Cent., or 20th Cent. America	3 Credits or 1 Class in <b>HIS 202</b>
 Note: Classes you take in Areas I–IV may also count toward the Sequence requirement in Literature or History. For example, if you take HIS 101 and HIS 102, these will:	
<input checked="" type="checkbox"/> Count towards “One History Course” (3 credits)	
<input checked="" type="checkbox"/> Counts towards 3 credits in “Other History, Social and Behavioral Science Courses”	
<input checked="" type="checkbox"/> And, satisfy the “Sequence in Literature or History” requirement with a History sequence	













## College of Arts and Sciences Area V-PreProf

INCOMPLETE

Credits required: 18   Credits applied: 0   Catalog year: Fall 2025   GPA: 0.000

**Unmet conditions for this set of requirements:**   18-21 hours are required. You currently have 0, you still need 18 more hours.

☐ PRE-PROFESSIONAL COURSE REQUIREMENTS








<input type="radio"/> College Chemistry I (with separate lab if applicable)	<b>Still needed:</b>	4 Credits or 2 Classes in <b>CHM</b> 111 or 111L
<input type="radio"/> College Chemistry II (with separate lab if applicable)	<b>Still needed:</b>	4 Credits or 2 Classes in <b>CHM</b> 112 or 112L
<input type="radio"/> Natural Science, Math, or Computer Science Elective	<b>Still needed:</b>	3 to 4 Credits in <b>BIO</b> 1@ or 2@ or <b>CHM</b> 1@ or 2@ or <b>AST</b> 200 or 220 or <b>GEO</b> 101 or 102 or 200 or 220 or <b>GLY</b> 100 or 101 or 102 or <b>PHS</b> 121 or 122 or 230 or <b>PHY</b> 115 or 201 or 202 or 205 or 206 or 213 or 214 or 216 or 217 or 218 or 299 or <b>MTH</b> 113 or 125 or 126 or 227 or <b>CIS</b> 202 or 212 or 213 or 215 or 251 or 252 or 255 or 256 or 285 or <b>BI</b> 3@ or 4@ or <b>CS</b> 305  or <b>CH</b> 3@ or 4@ or <b>GO</b> 3@ or 4@ or <b>GS</b> 3@ or 4@ or <b>MA</b> 302  or 303  or 304  or 305  or <b>PY</b> 3@ or 4@ Except <b>BIO</b> 101 or 102 or 105 or 110 or 111 or 113 or <b>CHM</b> 104 or 105 or 107 or 109 or 110
<input type="radio"/> Biostatistics, Statistics, Calculus I, or Calculus II	<b>Still needed:</b>	3 to 4 Credits in <b>BI</b> 312 or 312L or <b>MTH</b> 125 or 126 or 265 or <b>MA</b> 303  or 304  or 331  or 431  or <b>PS</b> 341  or <b>SO</b> 341 
<input type="radio"/> ORGANIC CHEMISTRY REQUIREMENT	<b>Still needed:</b>	Choose from 1 of the following:
<input type="radio"/> Organic Chemistry I (with separate lab if applicable)		4 Credits or 2 Classes in <b>CHM</b> 221 or 221L
<input type="radio"/> Organic Chemistry I		5 Credits or 2 Classes in <b>CH</b> 311  and 311L

## Major in Biology - Bioinformatics Option

INCOMPLETE

Credits required: 56    Credits applied: 0    Catalog year: Fall 2025    GPA: 0.000

**Unmet conditions for this set of requirements:** 56-59 hours are required. You currently have 0, you still need 56 more hours.  
Your GPA is 0.000; a GPA of 2.0 is required.  
A minimum of 15 hours must be taken at Athens State.

<input type="radio"/> Pathways to Success	<b>Still needed:</b>	3 Credits in <b>UNV</b> 300@
<input type="radio"/> Cell Structure and Function	<b>Still needed:</b>	4 Credits in <b>BI</b> 301  and 301L
<input type="radio"/> Genetics	<b>Still needed:</b>	4 Credits in <b>BI</b> 302  and 302L
<input type="radio"/> ECOLOGY REQUIREMENT	<b>Still needed:</b>	Choose from 1 of the following: Students may take both ecology courses ( <b>BI</b> 303/303L and <b>BI</b> 453/453L) and count one as a biology elective.
<input type="radio"/> General Ecology		4 Credits in <b>BI</b> 303  and 303L
<input type="radio"/> Plant Ecology		4 Credits in <b>BI</b> 453  and 453L
<input type="radio"/> Diversity and Adaptations	<b>Still needed:</b>	4 Credits in <b>BI</b> 304  and 304L
<input type="radio"/> Bioinformatics	<b>Still needed:</b>	4 Credits in <b>BI</b> 408 and 408L
<input type="radio"/> Biology Capstone or Research Thesis Capstone	<b>Still needed:</b>	1 Credit in <b>BI</b> 470  or 471 
<input type="radio"/> Career Seminar	<b>Still needed:</b>	1 Credit in <b>UNV</b> 400@

☐ Biology electives approved by faculty advisor **Still needed:** 8 Credits in BI 3@ or 4@ Except BI 300 ☒ or 300L or 320 or 320L or 456 ☒  
An exit exam is required for graduation and is administered in either BI 470 Biology Capstone or BI 471 Research Thesis Capstone.

## ☐ BIOINFORMATICS OPTION COURSE REQUIREMENTS

☐ Discrete Mathematics **Still needed:** 3 Credits in MA 308 ☒

☐ Introduction to Digital Logic Design **Still needed:** 4 Credits in CS 309 and 309L ☒

☐ Computer Science I or sufficient Placement Exam score **Still needed:** 3 Credits in CS 317 ☒

☐ Computer Science II **Still needed:** 3 Credits in CS 318 ☒

☐ Data Structures **Still needed:** 3 Credits in CS 372 ☒

☐ Topics in Object Oriented Programming or Algorithm Analysis **Still needed:** 3 Credits in CS 417 ☒ or 472 ☒

☐ Scripting Languages and System Administration **Still needed:** 3 Credits in ITE 315 ☒ or CIS 202

☐ Database Systems and Database Systems Lab **Still needed:** 4 Credits in ITE 327 ☒ and 327L

## General Electives

INCOMPLETE

Catalog year: Fall 2025 GPA: 0.000

☐ General Electives Requirement **Still needed:** 7-9 hours are required. You currently have 0, you still need 7 to 9 more hours.

## Legend

<input checked="" type="checkbox"/>	Complete	<input type="radio"/>	Not complete
<input checked="" type="checkbox"/>	Complete (with classes in-progress)	<input type="radio"/>	Nearly complete - see advisor
<input checked="" type="checkbox"/>	Prerequisite	@	Any course number

## Disclaimer

You are encouraged to use this degree audit report as a guide when planning your progress toward completion of the above requirements. Your academic advisor or the Registrar's Office may be contacted for assistance in interpreting this report. This audit is not your academic transcript and it is not official notification of completion of degree or certificate requirements. Please contact the Registrar's Office regarding this degree audit report, your official degree/certificate completion status, or to obtain a copy of your academic transcript.



**ATHENS STATE**  
UNIVERSITY