Purdue University – Natural Resources and Environmental Science
Natural Resources and Environmental Science Major: Concentrations in Climate and Energy Solutions, Emerging Environmental Challenges, Environmental Policy and Analysis, Environmental Quality and Restoration, Sustainability Science, Watershed Management

TOTAL TRANSFER CREDITS: 62-63 (see below)

Ivy Tech Community College
Agriculture, AS
https://catalog.ivytech.edu/preview_program.php?catoid=9&poid=7898&returnto=1009

Semester I

MATH STEM Numerical Reasoning Elective CREDIT HOURS: 3
MATH 136 = MA 15300 3 cr
MATH 136 + 137 = MA 15800 3 cr & MA 1XTRA 3 cr

BIOL 121 - General Biology I CREDIT HOURS MIN: 4
BIOL 121 = BIOL 11000 4 cr

ENGL 111 - English Composition CREDIT HOURS MIN: 3
ENGL 111 = ENGL 1XUWC 3 cr

AGRI Core Course CREDIT HOURS: 3
AGRI 110 = AGEC 20300 3 cr (Required)
AGRI 111 = AGRY 10500 3 cr
AGRI 113 = ANSC 10200 3 cr
AGRI 114 = ASM 1XUND 3 cr

AGRI Core Course CREDIT HOURS: 3
AGRI 111 = AGRY 10500 3 cr
AGRI 113 = ANSC 10200 3 cr
AGRI 114 = ASM 1XUND 3 cr

IVYT 111 - Student Success in University Transfer CREDIT HOURS MIN: 1
IVYT 111 = UND 1XTFR 1 cr
Approved for AGR 10100 & AGR 12200 1 cr

Total = 17 Credits

Semester II

MATH STEM Numerical Reasoning Elective CREDIT HOURS: 3
MATH 201 = MA 16010 3 cr (Required)

BIOL 122 - General Biology II CREDIT HOURS MIN: 4
OR Transfer Cluster Course CREDIT HOURS: 3
BIOL 122 = BIOL 11100 4 cr (Required)
If needed, see Purdue Ag Core - Transfer spreadsheet or complete list of Ivy Tech transfer courses to Purdue

COMM 101 - Fundamentals of Public Speaking CREDIT HOURS MIN: 3

COMM 101 = COM 11400 3 cr

AGRI Core Course CREDIT HOURS: 3

AGRI 111 = AGRY 10500 3 cr

AGRI 112 = HORT 10100 3 cr

AGRI 113 = ANSC 10200 3 cr

Transfer Cluster Course CREDIT HOURS: 3

(Insert any Ivy Tech course that transfers to Purdue)

If needed, see Purdue Ag Core - Transfer spreadsheet or complete list of Ivy Tech transfer courses to Purdue

Total = 16 Credits

Semester III

MATH 200 - Statistics CREDIT HOURS MIN: 3

OR Transfer Cluster Course CREDIT HOURS: 3

MATH 202 = MA 16020 3 cr (Required)

If needed, see Purdue Ag Core - Transfer spreadsheet or complete list of Ivy Tech transfer courses to Purdue

CHEM 101 - Introductory Chemistry I CREDIT HOURS MIN: 3

OR CHEM 105 - General Chemistry I CREDIT HOURS MIN: 5

CHEM 101 = CHM 11100 3 cr (Recommended)

OR CHEM 105 = CHM 11500 4 cr & 1XTRA 1 cr

Social and Behavioral Ways of Knowing Elective CREDIT HOURS: 3

ANTH 154 or POLS 211 = ANTH 10000 or POL 13000 3 cr (Required)

Approved for CoA Core – HUM/SS & INTL

If needed, see Purdue Ag Core - Transfer spreadsheet

AGRI Core Course - 16 Weeks CREDIT HOURS: 3

AGRI 201 = AGR 20100 3 cr (Required)

AGRI 205 = ANSC 22100 3 cr

AGRI 210 = AGEC 33000 3 cr

Transfer Cluster Course CREDIT HOURS: 3

PHYS 101 = PHYS 22000 4 cr (Required)

Total = 16 Credits

Semester IV

CHEM 102 - Introductory Chemistry II CREDIT HOURS MIN: 3

OR CHEM 106 - General Chemistry II CREDIT HOURS MIN: 5

CHEM 102 = CHM 11200 3 cr (Recommended)

OR CHEM 106 = CHM 11600 4 cr & 1XTRA 1 cr

Humanistic and Artistic Ways of Knowing Elective CREDIT HOURS: 3

Choose 1 of the following: (Required)

FREN/GERM/SPAN 101, 102, 201 or 202, PHIL 101, ENGL 220 or 221

= FR/GER/SPAN 10100, 10200, 20100, or 20200, PHIL 11000, ENGL 26600 or 26700 3-4 cr

Approved for UCC – Humanities and CoA Core – International Understanding

If needed, see Purdue Ag Core - Transfer spreadsheet

Transfer Cluster Course CREDIT HOURS: 3

MATH 200 = STAT 30100 3 cr (Required)

If needed, see Purdue Ag Core - Transfer spreadsheet or complete list of Ivy Tech transfer courses to Purdue

AGRI Core Course - 16 Weeks CREDIT HOURS: 3

AGRI 205 = ANSC 22100 3 cr

AGRI 210 = AGEC 33000 3 cr

AGRI 290 - Agriculture Seminar CREDIT HOURS MIN: 1

AGRI 290 = AGR 2XTFR 1 cr

Total = 13-14 Credits

Agriculture, Associate of Science - AS, 60 Credit Hours

Ivy Tech Course Descriptions & Prerequisites
https://catalog.ivytech.edu/content.php?catoid=9&navoid=1014

Note: The exact sequence of courses listed above (classes to take semester-by-semester) may vary. Students should consult with an advisor each semester before scheduling classes.

Transfer to Purdue University – Natural Resources and Environmental Science
Climate and Energy Solutions
https://catalog.purdue.edu/preview_program.php?catoid=17&poid=29657&returnto=22203

Natural Resources and Environmental Science Contact:
Mandy Chalk Marquardt, chalkm@purdue.edu, nres@purdue.edu

Courses to be Taken at Purdue

CLIMATE AND ENERGY SOLUTIONS

Summer Semester	Cr. Hrs.
Total	

Semester 1	Cr. Hrs.
NRES 20000	1
NRES 12500	3
POL 22300	3
NRES 25500	3
EAPS 22500	3
CHM 25500 or 25700	3 - 4
Total	**16 - 17**

Semester 2	Cr. Hrs.
NRES 33800	1
FNR 37500 or SOC 34400	3
Science Communication Selective	3
Ecology Selective	2 - 3
NRES 23000 or EAPS 22100 or AGRY 33500	3
Concentration Course	3
Total	**15 - 16**

Semester 3	Cr. Hrs.
NRES 42000	1
ILS 25000	3
AGEC 40600	3
POL 32700	3
Concentration Course	3
Total	**13**

Semester 4	Cr. Hrs.
NRES 49700	2
Data Science Selective	3
Elective	4
Concentration Course	3
Concentration Course	3
Total	**15**

Summer Semester	Cr. Hrs.
Total	

Notes:
Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.
120 total credits required.

Emerging Environmental Challenges

https://catalog.purdue.edu/preview_program.php?catoid=17&poid=29658&returnto=22203

RECOMMENDED PLAN OF STUDY

Natural Resources and Environmental Science Contact:

Mandy Chalk Marquardt, chalkm@purdue.edu, nres@purdue.edu

Courses to be Taken at Purdue

EMERGING ENVIRONMENTAL CHALLENGES

Summer Semester	Cr. Hrs.
Total	

Semester 1	Cr. Hrs.
NRES 20000	1
NRES 12500	3
POL 22300	3
NRES 25500	3
Concentration Course	3
CHM 25500 or 25700	3 - 4
Total	**16 - 17**

Semester 2	Cr. Hrs.
NRES 33800	1
FNR 37500 or SOC 34400	3
Science Communication Selective	3
Ecology Selective	2 - 3
Concentration Course	3
Concentration Course	3
Total	**15 - 16**

Semester 3	Cr. Hrs.
NRES 42000	1
ILS 25000	3
AGEC 40600	3
Concentration Course	3
Concentration Course	3
Total	**13**

Semester 4	Cr. Hrs.
NRES 49700	2
Data Science Selective	3
International Understanding Sel.	3
Concentration Course	3
Concentration Course	3
Elective	1
Total	**15**

Summer Semester	Cr. Hrs.
Total	

Notes:

Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.

120 total credits required.

Environmental Policy and Analysis

https://catalog.purdue.edu/preview_program.php?catoid=17&poid=29659&returnto=22203

RECOMMENDED PLAN OF STUDY

Natural Resources and Environmental Science Contact:

Mandy Chalk Marquardt, chalkm@purdue.edu, nres@purdue.edu

Courses to be Taken at Purdue

ENVIRONMENTAL POLICY AND ANALYSIS

Summer Semester	Cr. Hrs.
Total	

Semester 1	Cr. Hrs.
NRES 20000	1
NRES 12500	3
POL 22300	3
NRES 25500	3
Concentration Course	3
CHM 25500 or 25700	3 - 4
Total	**16 - 17**

Semester 2	Cr. Hrs.
NRES 33800	1
FNR 37500 or SOC 34400	3
Science Communication Selective	3
Ecology Selective	2 - 3
Concentration Course	3
Concentration Course	3
Total	**15 - 16**

Semester 3	Cr. Hrs.
NRES 42000	1
ILS 25000	3
AGEC 40600	3
AGEC 52500	3
Concentration Course	3
Total	**13**

Semester 4	Cr. Hrs.
NRES 49700	2
Data Science Selective	3
POL 32700	3
ASEC 58500	3
Elective	4
Total	**15**

Summer Semester	Cr. Hrs.
Total	

Notes:

Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.

120 total credits required.

Environmental Quality and Restoration

https://catalog.purdue.edu/preview_program.php?catoid=17&poid=29661&returnto=22203

RECOMMENDED PLAN OF STUDY

Natural Resources and Environmental Science Contact:

Mandy Chalk Marquardt, chalkm@purdue.edu, nres@purdue.edu

Courses to be Taken at Purdue

ENVIRONMENTAL QUALITY AND RESTORATION

Summer Semester	Cr. Hrs.
Total	

Semester 1	Cr. Hrs.
NRES 20000	1
NRES 12500	3
POL 22300	3
NRES 25500	3
FNR 22500	3
CHM 25500 or 25700	3 - 4
Total	**16 - 17**

Semester 2	Cr. Hrs.
NRES 33800	1
FNR 37500 or SOC 34400	3
Science Communication Selective	3
Ecology Selective	2 - 3
Concentration Course	3
Concentration Course	3
Total	**15 - 16**

Semester 3	Cr. Hrs.
NRES 42000	1
ILS 25000	3
AGEC 40600	3
AGRY 56000	3
BTNY 30500	3
Total	**13**

Semester 4	Cr. Hrs.
NRES 49700	2
Data Science Selective	3
International Understanding Sel.	3
NRES 38010	3
Concentration Course	3
Elective	1
Total	**15**

Summer Semester	Cr. Hrs.
Total	

Notes:

Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.

120 total credits required.

Sustainability Science

https://catalog.purdue.edu/preview_program.php?catoid=17&poid=30982&returnto=22203

RECOMMENDED PLAN OF STUDY

Natural Resources and Environmental Science Contact:

Mandy Chalk Marquardt, chalkm@purdue.edu, nres@purdue.edu

Courses to be Taken at Purdue

SUSTAINABILITY SCIENCE

Summer Semester	Cr. Hrs.
Total	

Semester 1	Cr. Hrs.
NRES 20000	1
NRES 12500	3
POL 22300	3
NRES 25500	3
EEE 23000	3
CHM 25500 or 25700	3 - 4
Total	**16 - 17**

Semester 2	Cr. Hrs.
NRES 33800	1
FNR 37500 or SOC 34400	3
Science Communication Selective	3
Ecology Selective	2 - 3
SFS 30200	3
Concentration Course	3
Total	**15 - 16**

Semester 3	Cr. Hrs.
NRES 42000	1
ILS 25000	3
AGEC 40600	3
EEE 35500	3
Concentration Course	3
Elective	1
Total	**14**

Semester 4	Cr. Hrs.
NRES 49700	2
Data Science Selective	3
International Understanding Sel.	3
Concentration Course	3
Concentration Course	3
Total	**14**

Summer Semester	Cr. Hrs.
Total	

Notes:

Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.

120 total credits required.

Watershed Management

https://catalog.purdue.edu/preview_program.php?catoid=17&poid=29660&returnto=22203

RECOMMENDED PLAN OF STUDY

Natural Resources and Environmental Science Contact:

Mandy Chalk Marquardt, chalkm@purdue.edu, nres@purdue.edu

Courses to be Taken at Purdue

WATERSHED MANAGEMENT

Summer Semester	Cr. Hrs.
Total	

Semester 1	Cr. Hrs.
NRES 20000	1
NRES 12500	3
POL 22300	3
NRES 25500	3
HORT or NRES 57200	2
CHM 25500 or 25700	3 - 4
Total	**15 - 16**

Semester 2	Cr. Hrs.
NRES 33800	1
FNR 37500 or SOC 34400	3
Science Communication Selective	3
Ecology Selective	2 - 3
AGRY or NRES 33700	3
Concentration Course	3
Total	**15 - 16**

Semester 3	Cr. Hrs.
NRES 42000	1
ILS 25000	3
AGEC 40600	3
AGRY 45000	3
NRES or FNR 27000	1
Concentration Course	3
Total	**14**

Semester 4	Cr. Hrs.
NRES 49700	2
Data Science Selective	3
International Understanding Sel.	3
Concentration Course	3
Concentration Course	3
Elective	1
Total	**15**

Summer Semester	Cr. Hrs.
Total	

Notes:

Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.

120 total credits required.