

STATISTICS, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2023-24 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition (*Note: the archive only contains suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin*).

Actuarial Option: Statistics, B.S. at University Park Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

| Fall | Credits Spring | Credits |
|--------------------------------|---------------------------------|-----------|
| MATH 140 (GQ) ^{*‡‡‡} | 4 MATH 141 (GQ) ^{*‡‡‡} | 4 |
| STAT 200 (GQ) ^{*†} | 4 STAT 300 [*] | 3 |
| STAT 184 [*] | 2 ECON 104 (GS) [†] | 3 |
| PSU 16 | 1 ACCTG 211 [*] | 4 |
| ECON 102 (GS) [†] | 3 General Education Course (GN) | 3 |
| General Education Course (GHW) | 1.5 | |
| | 15.5 | 17 |

Second Year

| Fall | Credits Spring | Credits |
|--------------------------------------|---------------------------------|-----------|
| MATH 220 ^{*†} | 3 STAT 414 [*] | 3 |
| MATH 230 [*] | 4 STAT 400 [*] | 3 |
| STAT 380 [*] | 3 General Education Course (GH) | 3 |
| CMPSC 131 ^{*†} | 3 FIN 301 [*] | 3 |
| ENGL 15 or ESL 15 (GWS) [‡] | 3 RM 302 [*] | 3 |
| | 16 | 15 |

Third Year

| Fall | Credits Spring | Credits |
|-------------------------------|------------------------------------|-----------|
| STAT 415 [*] | 3 STAT 463 [*] | 3 |
| RM 410 [*] | 3 RM 411 or 420 [*] | 3 |
| ENGL 202C (GWS) [‡] | 3 STAT 440 (Adv Stat) [*] | 3 |
| CAS 100 (GWS) [‡] | 3 General Education Course (GN) | 3 |
| General Education Course (GA) | 3 General Education Course (US) | 3 |
| | 15 | 15 |

Fourth Year

| Fall | Credits Spring | Credits |
|----------------------------------|---|-------------|
| RM 420 or 411 [*] | 3 STAT 470W [*] | 3 |
| STAT 466 (Adv Stat) [*] | 3 RM 412 or 422 [*] | 3 |
| General Education Course (GA) | 3 STAT 480 | 1 |
| General Education Course (GH) | 3 Supporting course (check with advising) | 3 |
| General Education Course (IL) | 3 General Education Course (GN) | 3 |
| | General Education Course (GHW) | 1.5 |
| | 15 | 14.5 |

Total Credits 123

- * Course requires a grade of C or better for the major
- ‡ Course requires a grade of C or better for General Education
- # Course is an Entrance to Major requirement
- † Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

Applied Option: Statistics, B.S. at University Park Campus

Note: a supporting program is required for this program (e.g., minor or concurrent major); consultation with an academic adviser is recommended.

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

| Fall | Credits Spring | Credits |
|--------------------------------|--|-----------|
| MATH 140 (GQ) ^{*†‡†} | 4 MATH 141 (GQ) ^{*†‡†} | 4 |
| STAT 200 (GQ) ^{*†} | 4 STAT 300 | 3 |
| STAT 184 [*] | 2 ENGL 15 or ESL 15 (GWS) [†] | 3 |
| PSU 16 | 1 General Education Course (GH) | 3 |
| General Education Course (GA) | 3 General Education Course (GN) | 3 |
| General Education Course (GHW) | 1.5 | |
| | 15.5 | 16 |

Second Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-----------|
| MATH 220 ^{*†} | 3 STAT 414 [*] | 3 |
| MATH 230 [*] | 4 STAT 463 [*] | 3 |
| CMPSC 131 ^{*†} | 3 CAS 100 (GWS) [†] | 3 |
| STAT 380 [*] | 3 Supporting Course | 3 |
| General Education Course (GS) | 3 General Education Course (GA) | 3 |
| | 16 | 15 |

Third Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-----------|
| STAT 415 [*] | 3 STAT 440 [*] | 3 |
| STAT 400 [*] | 3 STAT 416 [*] | 3 |
| ENGL 202C (GWS) [†] | 3 Supporting Course | 3 |
| Supporting Course | 3 General Education Course (IL) | 3 |
| General Education Course (GH) | 3 General Education Course (GS) | 3 |
| | 15 | 15 |

Fourth Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|---------|
| STAT 464 [*] | 3 STAT 470W [*] | 3 |
| STAT 466 [*] | 3 STAT 480 [*] | 1 |
| Supporting Course | 3 Supporting Course | 3 |
| Supporting Course | 3 Supporting Course | 3 |
| General Education Course (GN) | 3 General Education Course (US) | 3 |

| | |
|--------------------------------|-------------|
| General Education Course (GHW) | 1.5 |
| 15 | 14.5 |

Total Credits 122

- * Course requires a grade of C or better for the major
- ‡ Course requires a grade of C or better for General Education
- # Course is an Entrance to Major requirement
- † Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

Program Notes:

The applied statistics option requires that the student complete the requirements for a supporting minor or concurrent major. Neither the mathematics major/minor nor the six sigma minor, nor the risk management major with the actuarial science option may be used to satisfy the minor/concurrent major requirement. If a student wants to work in a supporting field that does not have a minor, he or she can propose a list of six appropriate courses and petition the Statistics Department for approval. It is the student's responsibility to justify the appropriateness of the proposed list. Students must receive a grade of C or better in each of these six courses.

Applied Option (MATH 26): Statistics, B.S. at University Park Campus

Note: a supporting program is required for this program (e.g., minor or concurrent major); consultation with an academic adviser is recommended.

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

| First Year | | |
|--------------------------------|--|-----------|
| Fall | Credits Spring | Credits |
| MATH 26, 40, or 41 (GQ) | 3 MATH 140 (GQ) ^{*‡##†} | 4 |
| STAT 200 (GQ) ^{*†} | 4 STAT 300 [*] | 3 |
| STAT 184 [*] | 2 ENGL 15 or ESL 15 (GWS) [‡] | 3 |
| PSU 16 | 1 General Education Course (GH) | 3 |
| General Education Course (GA) | 3 General Education Course (GN) | 3 |
| General Education Course (GHW) | 1.5 | |
| | 14.5 | 16 |
| Second Year | | |
| Fall | Credits Spring | Credits |
| MATH 220 ^{*†} | 3 MATH 230 [*] | 4 |
| MATH 141 ^{*‡##†} | 4 STAT 464 [*] | 3 |
| CMPSC 131 ^{*†} | 3 CAS 100 (GWS) [‡] | 3 |
| STAT 380 [*] | 3 Supporting Course | 3 |
| General Education Course (GS) | 3 General Education Course (GA) | 3 |
| | 16 | 16 |
| Third Year | | |
| Fall | Credits Spring | Credits |
| STAT 414 [*] | 3 STAT 466 [*] | 3 |
| STAT 400 [*] | 3 STAT 415 [*] | 3 |
| ENGL 202C (GWS) [‡] | 3 Supporting Course | 3 |
| Supporting Course | 3 General Education Course (IL) | 3 |
| General Education Course (GH) | 3 General Education Course (GS) | 3 |
| | 15 | 15 |
| Fourth Year | | |
| Fall | Credits Spring | Credits |
| STAT 463 [*] | 3 STAT 470W [*] | 3 |
| STAT 440 [*] | 3 STAT 480 [*] | 1 |
| Supporting Course | 3 Supporting Course | 3 |
| Supporting Course | 3 Supporting Course | 3 |
| General Education Course (GN) | 3 General Education Course (US) | 3 |

| General Education Course (GHW) | 1.5 |
|--------------------------------|-------------|
| 15 | 14.5 |

Total Credits 122

- * Course requires a grade of C or better for the major
- ‡ Course requires a grade of C or better for General Education
- # Course is an Entrance to Major requirement
- † Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

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General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

Program Notes:

The applied statistics option requires that the student complete the requirements for a supporting minor or concurrent major. Neither the mathematics major/minor nor the six sigma minor, nor the risk management major with the actuarial science option may be used to satisfy the minor/concurrent major requirement. If a student wants to work in a supporting field that does not have a minor, he or she can propose a list of six appropriate courses and petition the Statistics Department for approval. It is the student's responsibility to justify the appropriateness of the proposed list. Students must receive a grade of C or better in each of these six courses.

Biostatistics Option: Statistics, B.S. at University Park Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

| Fall | Credits Spring | Credits |
|-------------------------------|--|-------------|
| MATH 140 (GQ) ^{*†##} | 4 MATH 141 (GQ) ^{*†##} | 4 |
| STAT 200 (GQ) ^{*†} | 4 STAT 300 [*] | 3 |
| STAT 184 [*] | 2 ENGL 15 or ESL 15 (GWS) [‡] | 3 |
| PSU 16 | 1 CHEM 110 (GN) ^{*†} | 3 |
| BIOL 110 (GN) ^{*†} | 4 CHEM 111 (GN) ^{*†} | 1 |
| | General Education Course (GHW) | 1.5 |
| | 15 | 15.5 |

Second Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-----------|
| MATH 220 ^{*†} | 3 STAT 414 [*] | 3 |
| MATH 230 [*] | 4 BBH/HPA 440 [*] | 3 |
| BIOL 220W (GN) ^{*†} | 4 CAS 100 (GWS) [‡] | 3 |
| STAT 380 [*] | 3 CMPSC 131 ^{*†} | 3 |
| General Education Course (GA) | 3 General Education Course (GH) | 3 |
| | 17 | 15 |

Third Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-----------|
| STAT 415 [*] | 3 STAT 463 [*] | 3 |
| STAT 400 [*] | 3 STAT 416 [*] | 3 |
| ENGL 202C (GWS) [‡] | 3 400-level BIOL [*] | 3 |
| BIOL 222, 230W, or 240W | 3 General Education Course (IL) | 3 |
| General Education Course (GS) | 3 General Education Course (IL) | 3 |
| | 15 | 15 |

Fourth Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-------------|
| STAT 440 [*] | 3 STAT 470W [*] | 3 |
| STAT 466 [*] | 3 STAT 464 [*] | 3 |
| 400-level BIOL [*] | 3 STAT 480 [*] | 1 |
| Supporting Course | 3 Supporting Course | 3 |
| General Education Course (GN) | 3 General Education Course (US) | 3 |
| | General Education Course (GHW) | 1.5 |
| | 15 | 14.5 |

Total Credits 122

† Course satisfies General Education and degree requirement

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All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

Course is an Entrance to Major requirement

Graduate Studies Option: Statistics, B.S. at University Park Campus

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| First Year | | |
|--------------------------------|--|-----------|
| Fall | Credits Spring | Credits |
| MATH 140 (GQ) ^{*‡##†} | 4 MATH 141 (GQ) ^{*‡##†} | 4 |
| STAT 200 (GQ) ^{**†} | 4 STAT 300 [*] | 3 |
| STAT 184 [*] | 2 ENGL 15 or ESL 15 (GWS) [‡] | 3 |
| PSU 16 | 1 General Education Course (GH) | 3 |
| General Education Course (GA) | 3 General Education Course (GN) | 3 |
| General Education Course (GHW) | 1.5 | |
| | 15.5 | 16 |

| Second Year | | |
|-------------------------------|---------------------------------|-----------|
| Fall | Credits Spring | Credits |
| MATH 220 ^{*†} | 3 STAT 414 [*] | 3 |
| MATH 230 [*] | 4 MATH 312 [*] | 3 |
| CMPSC 131 ^{*†} | 3 CAS 100 (GWS) [‡] | 3 |
| STAT 380 [*] | 3 MATH 310 [*] | 3 |
| General Education Course (GS) | 3 General Education Course (GA) | 3 |
| | 16 | 15 |

| Third Year | | |
|-------------------------------|---------------------------------|-----------|
| Fall | Credits Spring | Credits |
| STAT 415 [*] | 3 STAT 440 [*] | 3 |
| STAT 400 [*] | 3 STAT 416 [*] | 3 |
| ENGL 202C [‡] | 3 MATH 404 [*] | 3 |
| MATH 403 [*] | 3 MATH 311W [*] | 3 |
| General Education Course (GH) | 3 General Education Course (GS) | 3 |
| | 15 | 15 |

| Fourth Year | | |
|-------------------------------|---------------------------------|-------------|
| Fall | Credits Spring | Credits |
| STAT 463 [*] | 3 STAT 470W [*] | 3 |
| MATH 429 [*] | 3 STAT 480 [*] | 1 |
| MATH 436 [*] | 3 MATH 451 [*] | 3 |
| General Education Course (IL) | 3 General Education Course (GN) | 3 |
| General Education Course (GN) | 3 General Education Course (US) | 3 |
| | General Education Course (GHW) | 1.5 |
| | 15 | 14.5 |

Total Credits 122

‡ Course requires a grade of C or better for General Education

Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

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* Course requires a grade of C or better for the major

Statistics and Computing Option: Statistics, B.S. at University Park Campus

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First Year

| Fall | Credits Spring | Credits |
|--------------------------------|--|-----------|
| MATH 140 (GQ) ^{*†##} | 4 MATH 141 (GQ) ^{*†##} | 4 |
| STAT 200 (GQ) ^{**†} | 4 STAT 300 [*] | 3 |
| STAT 184 [*] | 2 ENGL 15 or ESL 15 (GWS) [‡] | 3 |
| PSU 16 | 1 General Education Course (GH) | 3 |
| General Education Course (GA) | 3 General Education Course (GN) | 3 |
| General Education Course (GHW) | 1.5 | |
| | 15.5 | 16 |

Second Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-----------|
| MATH 220 ^{*†} | 3 STAT 414 [*] | 3 |
| MATH 230 [*] | 4 STAT 463 [*] | 3 |
| CMPSC 131 ^{*†} | 3 CAS 100 (GWS) [‡] | 3 |
| STAT 380 [*] | 3 CMPSC 132 ^{*†} | 3 |
| General Education Course (GS) | 3 General Education Course (GA) | 3 |
| | 16 | 15 |

Third Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-----------|
| STAT 415 [*] | 3 STAT 440 [*] | 3 |
| STAT 400 [*] | 3 CMPSC 465 [*] | 3 |
| ENGL 202C (GWS) [‡] | 3 CMPSC 360 [*] | 3 |
| CMPSC 221 [*] | 3 General Education Course (IL) | 3 |
| General Education Course (GH) | 3 General Education Course (GS) | 3 |
| | 15 | 15 |

Fourth Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-------------|
| CMPSC 448 [*] | 3 STAT 470W [*] | 3 |
| STAT 466 [*] | 3 STAT 480 [*] | 1 |
| CMPSC 442 [*] | 3 CMPSC 455 [*] | 3 |
| Supporting Course | 3 Supporting Course | 3 |
| General Education Course (GN) | 3 General Education Course (US) | 3 |
| | General Education Course (GHW) | 1.5 |
| | 15 | 14.5 |

Total Credits 122

‡ Course requires a grade of C or better for General Education

Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

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All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and satisfy a portion of that General Education requirement. If the student's program prescribes GWS these courses will replace both ENGL 15/ENGL 30H and CAS 100A/CAS 100B/CAS 100C. Each course is 3 credits.

* Course requires a grade of C or better for the major

Actuarial Option: Statistics, B.S. at Commonwealth Campuses

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First Year

| Fall | Credits Spring | Credits |
|--------------------------------------|---------------------------------|-----------|
| MATH 140 (GQ) ^{*†#†} | 4 MATH 141 (GQ) ^{*†#†} | 4 |
| STAT 200 (GQ) ^{*†} | 4 General Education Course (GA) | 3 |
| ENGL 15 or ESL 15 (GWS) [†] | 3 ECON 104 (GS) [†] | 3 |
| First-Year Seminar | 1 ACCTG 211 [*] | 4 |
| ECON 102 (GS) [†] | 3 General Education Course (GN) | 3 |
| General Education Course (GHW) | 1.5 | |
| | 16.5 | 17 |

Second Year

| Fall | Credits Spring | Credits Summer | Credits |
|-------------------------------|--|--|----------|
| MATH 220 ^{*†} | 3 STAT 414 (or Supporting Course) [*] | 3 STAT 414 (if not taken during the 4th semester) [*] | 3 |
| MATH 230 [*] | 4 ENGL 202C (GWS) [†] | 3 | |
| CAS 100A (GWS) [†] | 3 FIN 301 [*] | 3 | |
| CMPSC 131 ^{*†} | 3 General Education Course (GH) | 3 | |
| General Education Course (GN) | 3 General Education Course (US) | | |
| | 16 | 12 | 0 |

Third Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-----------|
| STAT 415 [*] | 3 STAT 463 [*] | 3 |
| RM 410 [*] | 3 RM 411 or 420 [*] | 3 |
| STAT 184 [*] | 2 STAT 380 [*] | 3 |
| STAT 300 [*] | 3 RM 302 [*] | 3 |
| General Education Course (GA) | 3 General Education Course (GN) | 3 |
| | 14 | 15 |

Fourth Year

| Fall | Credits Spring | Credits |
|-------------------------------|---------------------------------|-------------|
| RM 420 or 411 [*] | 3 STAT 470W [*] | 3 |
| STAT 400 [*] | 3 RM 412 or 422 [*] | 3 |
| STAT 466 [*] | 3 STAT 480 [*] | 1 |
| STAT 440 [*] | 3 STAT 463 [*] | 3 |
| General Education Course (GH) | 3 General Education Course (IL) | 3 |
| | General Education Course (GHW) | 1.5 |
| | 15 | 14.5 |

Total Credits 120

- * Course requires a grade of C or better for the major
- ‡ Course requires a grade of C or better for General Education
- # Course is an Entrance to Major requirement
- † Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

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General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

Applied Option: Statistics, B.S. at Commonwealth Campuses

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

| Fall | Credits Spring | Credits |
|--|--|-----------|
| MATH 140 ^{*†##} | 4 MATH 141 ^{*†##} | 4 |
| STAT 200 ^{*†} | 4 ECON 104 [†] | 3 |
| PSU 16 | 1 General Education Course | 3 |
| ECON 102 [†] | 3 ENGL 15 (or General Education Course) [†] | 3 |
| ENGL 15 (or General Education Course) [†] | 3 General Education Course | 3 |
| | 15 | 16 |

Second Year

| Fall | Credits Spring | Credits |
|--|--|-----------|
| MATH 220 ^{*†} | 2 STAT 414 (or Supporting Course) [*] | 3 |
| MATH 230 [*] | 4 ENGL 202C [‡] | 3 |
| CAS 100A [‡] | 3 CMPSC 121 or 131 ^{*†} | 3 |
| Course for required minor [*] | 3 Course for required minor [*] | 3 |
| General Education Course | 3 General Education Course | 3 |
| | 15 | 15 |

Third Year

| Fall | Credits Spring | Credits |
|---|--|-----------|
| STAT 184 [*] | 2 STAT 380 [*] | 3 |
| STAT 414 (or Supporting Course (if not taken in 4th semester)) [*] | 3 STAT 415 [*] | 3 |
| STAT 461 [*] | 3 STAT 462 [*] | 3 |
| Course for required minor [*] | 3 STAT 480 [*] | 1 |
| General Education Course | 3 Course for required minor [*] | 3 |
| General Education Course | 3 General Education Course | 3 |
| | 17 | 16 |

Fourth Year

| Fall | Credits Spring | Credits |
|--|--|-------------|
| STAT 416 [*] | 3 STAT 470W [*] | 3 |
| STAT 466 [*] | 3 MATH 451 [*] | 3 |
| General Education Course (GHW) | 1.5 STAT 416 [*] | 3 |
| Course for required minor [*] | 3 Course for required minor [*] | 3 |
| Course for required minor [*] | 3 Course for required minor [*] | 3 |
| General Education Course | 3 General Education Course (GHW) | 1.5 |
| | 16.5 | 16.5 |

Total Credits 127

Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

Program Notes:

The applied statistics option requires that the student complete the requirements for a supporting minor or concurrent major. Neither the mathematics major/minor nor the six sigma minor, nor the risk management major with the actuarial science option may be used to satisfy the minor/concurrent major requirement. If a student wants to work in a supporting field that does not have a minor, he or she can propose a list of six appropriate courses and petition the Statistics Department for approval. It is the student's responsibility to justify the appropriateness of the proposed list. Students must receive a grade of C or better in each of these six courses.

* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

Biostatistics Option: Statistics, B.S. at Commonwealth Campuses

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

| First Year | | |
|--|--|-----------|
| Fall | Credits Spring | Credits |
| MATH 140 ^{*†##} | 4 MATH 141 ^{*†##} | 4 |
| STAT 200 ^{**†} | 4 CHEM 110 ^{**†} | 3 |
| PSU 16 | 1 CHEM 111 ^{**†} | 1 |
| BIOL 110 ^{**†} | 4 ENGL 15 (or General Education Course) [‡] | 3 |
| ENGL 15 (or General Education Course) [‡] | 3 General Education Course | 3 |
| 16 | | 14 |

| Second Year | | |
|--|--|-----------|
| Fall | Credits Spring | Credits |
| MATH 220 ^{**†} | 2 STAT 414 (or Supporting Course) [*] | 3 |
| MATH 230 [*] | 4 ENGL 202C [‡] | 3 |
| CAS 100A [‡] | 3 CMPSC 121 or 131 ^{**†} | 3 |
| BIOL 220W, 222, 230W, or 240W ^{**†} | 3-4 BIOL 220W, 222, 230W, or 240W ^{**†} | 3-4 |
| General Education Course | 3 General Education Course | 3 |
| 15 | | 16 |

| Third Year | | |
|---|----------------------------|-----------|
| Fall | Credits Spring | Credits |
| STAT 184 [*] | 2 STAT 380 [*] | 3 |
| STAT 414 (or Supporting Course (if not taken in 4th semester)) [*] | 3 STAT 415 [*] | 3 |
| STAT 461 [*] | 3 STAT 462 [*] | 3 |
| BIOL 400-Level Selection [*] | 3 STAT 480 [*] | 1 |
| Supporting Course | 3 Supporting Course | 3 |
| General Education Course | 3 General Education Course | 3 |
| 17 | | 16 |

| Fourth Year | | |
|---------------------------------------|------------------------------------|-------------|
| Fall | Credits Spring | Credits |
| STAT 416 [*] | 3 STAT 470W [*] | 3 |
| STAT 466 [*] | 3 MATH 451 [*] | 3 |
| BIOL 400-Level Selection [*] | 3 STAT 416 [*] | 3 |
| Supporting Course | 3 Supporting Course | 3 |
| Supporting Course | 3 Supporting Course | 3 |
| General Education Course (GHW) | 1.5 General Education Course (GHW) | 1.5 |
| 16.5 | | 16.5 |

Total Credits 127

Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

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General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

Graduate Studies Option: Statistics, B.S. at Commonwealth Campuses

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First Year

| Fall | Credits Spring | Credits |
|--------------------------|----------------------------|-----------|
| MATH 140 ^{*†#†} | 4 MATH 141 ^{*†#†} | 4 |
| STAT 200 ^{**†} | 4 ENGL 15 [‡] | 3 |
| PSU 16 | 1 General Education Course | 3 |
| General Education Course | 3 General Education Course | 3 |
| General Education Course | 3 General Education Course | 3 |
| | 15 | 16 |

Second Year

| Fall | Credits Spring | Credits |
|--------------------------|--|-----------|
| MATH 220 ^{**†} | 2 STAT 414 (or Supporting Course) [*] | 3 |
| MATH 230 [*] | 4 ENGL 202C [‡] | 3 |
| CAS 100A [‡] | 3 CMPSC 121 or 131 ^{**†} | 3 |
| MATH 311W [*] | 3 MATH 312 [*] | 3 |
| General Education Course | 3 General Education Course | 3 |
| | 15 | 15 |

Third Year

| Fall | Credits Spring | Credits |
|---|----------------------------|-----------|
| STAT 184 [*] | 2 STAT 380 [*] | 3 |
| STAT 414 (or Supporting Course (if not taken in 4th semester)) [*] | 3 STAT 415 [*] | 3 |
| STAT 461 [*] | 3 STAT 462 [*] | 3 |
| MATH 403 [*] | 3 MATH 404 [*] | 3 |
| General Education Course | 3 Supporting Course | 3 |
| General Education Course | 3 General Education Course | 3 |
| | 17 | 18 |

Fourth Year

| Fall | Credits Spring | Credits |
|--------------------------------|---|-------------|
| STAT 416 [*] | 3 STAT 470W [*] | 3 |
| STAT 466 [*] | 3 MATH 400-Level Selection [*] | 3 |
| MATH 436 [*] | 3 MATH 310 [*] | 3 |
| STAT 480 [*] | 1 MATH 451 [*] | 3 |
| General Education Course | 3 Supporting Course | 3 |
| General Education Course (GHW) | 1.5 General Education Course (GHW) | 1.5 |
| | 14.5 | 16.5 |

Total Credits 127

* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

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Statistics and Computing Option: Statistics, B.S. at Commonwealth Campuses

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

| Fall | Credits Spring | Credits |
|--|--|-----------|
| MATH 140 ^{*†#†} | 4 MATH 141 ^{*†#†} | 4 |
| STAT 200 ^{**†} | 4 CMPSC 122 or 132 ^{**†} | 3 |
| PSU 16 | 1 General Education Course | 3 |
| CMPSC 121 or 131 ^{**†} | 3 ENGL 15 (or General Education Course) [‡] | 3 |
| ENGL 15 (or General Education Course) [‡] | 3 General Education Course | 3 |
| | 15 | 16 |

Second Year

| Fall | Credits Spring | Credits |
|--------------------------|--|-----------|
| MATH 220 ^{**†} | 2 STAT 414 (or Supporting Course) [*] | 3 |
| MATH 230 [*] | 4 ENGL 202C [‡] | 3 |
| CAS 100A [‡] | 3 CMPSC 221 [*] | 3 |
| General Education Course | 3 Supporting Course | 3 |
| General Education Course | 3 General Education Course | 3 |
| | 15 | 15 |

Third Year

| Fall | Credits Spring | Credits |
|---|-------------------------|---------|
| STAT 184 [*] | 2 STAT 380 [*] | 3 |
| STAT 414 (or Supporting Course (if not taken in 4th semester)) [*] | 3 STAT 415 [*] | 3 |
| STAT 461 [*] | 3 STAT 462 [*] | 3 |
| MATH 311W or CMPSC 360 [*] | 3 STAT 480 [*] | 1 |
| Supporting Course | 3 Supporting Course | 3 |

| | | |
|--------------------------|----------------------------|-----------|
| General Education Course | 3 General Education Course | 3 |
| | 17 | 16 |

Fourth Year

| Fall | Credits Spring | Credits |
|--------------------------------|----------------------------------|----------------|
| STAT 416* | 3 STAT 470W* | 3 |
| STAT 466* | 3 MATH 451* | 3 |
| CMPSC 465* | 3 STAT 416* | 3 |
| CMPSC 400-Level Selection* | 3 CMPSC 400-Level Selection* | 3 |
| General Education Course (GHW) | 1.5 Supporting Course | 3 |
| General Education Course | 3 General Education Course (GHW) | 1.5 |
| | 16.5 | 16.5 |

Total Credits 127

- * Course requires a grade of C or better for the major
- ‡ Course requires a grade of C or better for General Education
- # Course is an Entrance to Major requirement
- † Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

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W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

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