

MINING ENGINEERING, 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 2024-25 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.

Mining Engineering, 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 or 140G (GQ) ^{††}	4 MATH 141 or 141G (GQ) ^{††}	4
CHEM 110 (GN) [†]	3 CMPSC 200, 201, or 203	3
CHEM 111 (GN) [†]	1 ENGL 15, 30H, or ESL 15 (GWS) ^{††}	3
EMSC 100S (or CAS 100 by substitution) (GWS) ^{††1}	3 PHYS 211 (GN) [†]	4
EDSGN 100	3 PHIL 103, 106, 107, or 233 (GH) [†]	3
ECON 102 (GS) [†]	3	
	17	17

Second Year

Fall	Credits Spring	Credits
PHYS 212 (GN) [†]	4 PHYS 213	2
EMCH 210	5 EMCH 212	3
MNG 223 or CE 209	2 EME 301 or ME 201	3
MATH 250	3 MATH 220 or 231	2
GEOSC 1 [*]	3 EME 210 or STAT 401	3
	MNG 230 [*]	3
	17	16

Third Year

Fall	Credits Spring	Credits
EE 211	3 MNPR 301 [*]	3
GEOSC 201	4 MNG 422	3
EME 460 or MNG 412	3 MNG 331	3
EME 303	3 MNG 441 [*]	3
ENGL 202C (GWS) ^{††}	3 General Education Knowledge Domain	3
General Education Health and Wellness (GHW)	1.5 MNG 404	2
	17.5	17

Fourth Year

Fall	Credits Spring	Credits
MNG 411	2 MNG 451W (Part 2) (Writing across the curriculum) [*]	2
MNG 410	3 General Education Knowledge Domain	3
MNG 451W (Part 1) (Writing across the curriculum) [*]	2 General Education Knowledge Domain	3
GEOSC 470W	3 MNG Technical Elective from Approved Department List ²	3
MNPR 413 [*]	1 General Education Health and Wellness (GHW)	1.5
MNG Technical Elective from Approved Department List ²	3	
General Education Knowledge Domain	3	
	17	12.5

Total Credits 131

* 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

¹ Students who begin their studies at non-UP locations and/or join the college after their first year should substitute CAS 100A, CAS 100B, or CAS 100C (GWS) for EMSC 100S (GWS). EMSC 100S Earth and Mineral Sciences First year Seminar (3) is a required course only for students who begin their studies at UP in the College of Earth and Mineral Sciences.

² Approved Technical Electives for the MNGE major can be found at the department website (<https://www.eme.psu.edu/undergraduate/academics/undergraduate-programs/mining-engineering-major/approved-tech-electives/>). Mining technical electives may be substitute with up to 6 credits ROTC.

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.

Advising Notes:

To enter the major, students need a minimum 2.00 grade point average and third semester standing.

Courses required for the major may be offered fall semester only, spring semester only, or both fall and spring semesters. Consult with your adviser and department to discuss your academic progress and course sequencing.

Mining Engineering, 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 (GQ) ^{††}	4 MATH 141 (GQ) ^{††}	4
CHEM 110 (GN) [†]	3 ECON 102 (GS) [†]	3
CHEM 111 (GN) [†]	1 CMPSC 200, 201, or 203	3
ENGL 15, 30H, or ESL 15 (GWS) ^{††}	3 PHYS 211 (GN) [†]	4
EDSGN 100	3 PHIL 103, 106, 107, or 233 (GH) [†]	3
General Education Knowledge Domain	3	
	17	17

Second Year

Fall	Credits Spring	Credits
PHYS 212 (GN) [†]	4 EMCH 212	3
EMCH 211 (Take EMCH 211 and EMCH 213 in place of EMCH 210)	3 EMCH 213 (Take EMCH 211 and EMCH 213 in place of EMCH 210)	3
MATH 220 or 231	2 PHYS 213	2
CAS 100A, 100B, or 100C (GWS) ^{††1}	3 ENGL 202C (GWS) ^{††}	3
General Education Knowledge Domain	3 MATH 250	3
General Education Health and Wellness (GHW)	1.5 MNG 230 (take through DLC) [*]	3
	16.5	17

Third Year

Fall	Credits Spring	Credits
GEOSC 1 [*]	3 MNPR 301 [*]	3
EME 303	3 MNG 422	3
MNG 223 or CE 209	2 MNG 331	3
EME 301	3 MNG 441 [*]	3
EME 460 or MNG 412	3 MNG 404	2
GEOSC 201	4	
	18	14

Fourth Year

Fall	Credits Spring	Credits
MNG 411	2 MNG 451W (Part 2) (Writing across the curriculum) [*]	2
MNG 410	3 General Education Knowledge Domain	3
MNG 451W (Part 1) (Writing across the curriculum) [*]	2 General Education Knowledge Domain	3
MNG Technical Elective from Approved Department List ²	3 MNG Technical Elective from Approved Department List ²	3
GEOSC 470W	3 EE 211	3

MNPR 413 [*]	1 General Education Health and Wellness (GHW)	1.5
EME 210 or STAT 401	3	
	17	15.5

Total Credits 132

^{*} 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

¹ Students who begin their studies at non-UP locations and/or join the college after their first year should substitute CAS 100A, CAS 100B, or CAS 100C (GWS) for EMSC 100S (GWS). EMSC 100S Earth and Mineral Sciences First year Seminar (3) is a required course only for students who begin their studies at UP in the College of Earth and Mineral Sciences.

² Approved Technical Electives for the MNGE major can be found at the department website (<https://www.eme.psu.edu/undergraduate/academics/undergraduate-programs/mining-engineering-major/approved-tech-electives/>). (<https://www.eme.psu.edu/approved-tech-electives-mnge/>) Mining technical electives may be substitute with up to 6 credits ROTC.

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.

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Advising Notes:

To enter the major, students need a minimum 2.00 grade point average and third semester standing.

Courses required for the major may be offered fall semester only, spring semester only, or both fall and spring semesters. Consult with your adviser and department to discuss your academic progress and course sequencing.

Commonwealth Campus students are strongly advised to successfully complete their EMCH, MATH, PHYS, and GWS requirements before transitioning to University Park.