

GEOL 102: IGNEOUS AND METAMORPHIC PETROLOGY

In Workflow

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Approval Path

1. Mon, 16 Oct 2023 22:21:45 GMT
Steven Skinner (steven.skinner): Approved for GEOL Committee Chair
2. Mon, 16 Oct 2023 23:18:30 GMT
Steven Skinner (steven.skinner): Approved for GEOL Chair
3. Wed, 18 Oct 2023 22:24:14 GMT
Mikkel Jensen (mikkel.jensen): Approved for NSM College Committee Chair
4. Thu, 19 Oct 2023 15:27:10 GMT
Shannon Datwyler (datwyler): Approved for NSM Dean
5. Wed, 01 Nov 2023 23:20:39 GMT
Katie Hawke (katiedickson): Approved for Academic Services

Date Submitted: Mon, 16 Oct 2023 18:40:58 GMT

Viewing: GEOL 102 : Igneous and Metamorphic Petrology

Last edit: Wed, 18 Oct 2023 22:22:33 GMT

Changes proposed by: Amy Wagner (216313696)

Contact(s):

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Catalog Title:

Igneous and Metamorphic Petrology

Class Schedule Title:

Igneous & Metam Petrology

Academic Group: (College)

NSM - Natural Sciences & Mathematics

Academic Organization: (Department)

Geology

Will this course be offered through the College of Continuing Education (CCE)?

No

Catalog Year Effective:

Fall 2024 (2024/2025 Catalog)

Subject Area: (prefix)

GEOL - Geology

Catalog Number: (course number)

102

Course ID: (For administrative use only.)

135096

Units:

4

Is the only purpose of this change to update the term typically offered or the enforcement of existing prerequisites at registration?

No

In what term(s) will this course typically be offered?

Fall term only

Does this course require a room for its final exam?

Yes, final exam requires a room

This course complies with the credit hour policy:

Yes

Justification for course proposal:

Updating the course pre-requisites and course description.

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)

Study of the origin, evolution, occurrence, geochemistry, dynamics and physical characteristics of igneous and metamorphic systems. The laboratory will focus on both hand-specimen and petrographic-microscope studies. Lecture three hours, laboratory three hours. Field trip. Fee course.

Are one or more field trips required with this course?

Yes

Fee Course?

Yes

Is this course designated as Service Learning?

No

Is this course designated as Curricular Community Engaged Learning?

No

Does this course require safety training?

Yes

Does this course require personal protective equipment (PPE)?

Yes

Course Note: (Note must be a single sentence; do not include field trip or fee course notations.)

This course requires safety training and personal protective equipment (PPE).

Does this course have prerequisites?

Yes

Prerequisite:

GEOL 100, GEOL 101, and GEOL 103

Prerequisites Enforced at Registration?

Yes

Does this course have corequisites?

No

Graded:

Letter

Approval required for enrollment?

No Approval Required

Course Component(s) and Classification(s):

Laboratory
Lecture

Laboratory Classification

CS#16 - Science Laboratory (K-factor=2 WTU per unit)

Laboratory Units

1

Lecture Classification

CS#01 - Large Lecture (K-factor=1 WTU per unit)

Lecture Units

3

Is this a paired course?

No

Is this course crosslisted?

No

Can this course be repeated for credit?

No

Can the course be taken for credit more than once during the same term?

No

Description of the Expected Learning Outcomes and Assessment Strategies:

List the Expected Learning Outcomes and their accompanying Assessment Strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers). Click the plus sign to add a new row.

	Expected Learning Outcome	Assessment Strategies
1	Produce written descriptions of igneous and metamorphic rocks using hand sample, thin section, and field observations.	Weekly lab exercises, lab exams, lecture exams, field excursion
2	Explain how chemical and mechanical petrological processes create rocks in various tectonic settings.	Weekly lab exercises, lab exams, lecture exams, field excursion
3	Interpret the mechanism and age of petrological process from rock composition, rock texture, and quantitative geochemical data.	Weekly lab exercises, lab exams, lecture exams, field excursion

Is this course required in a degree program (major, minor, graduate degree, certificate?)

Yes

Has a corresponding Program Change been submitted to Workflow?

No

Identify the program(s) in which this course is required:

Programs:

BS in Geology (General Geology)

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals

Undergraduate Learning Goals:

Competence in the disciplines
Knowledge of human cultures and the physical and natural world
Intellectual and practical skills
Integrative learning

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

GE Course and GE Goal(s)

Is this a General Education (GE) course or is it being considered for GE?

No

Please attach any additional files not requested above:

Geology 102 syllabus F23 public.pdf

Key: 2355