822*: Biogeochemistry
Fall of even-numbered years. 3(3-0) P: 12 credits in CEM or BS; 6 credits in GLG; R: Masters and Ph.D. only OR approval of department. Carbon and nutrient cycling in the natural environment; roles and anoxic processes; flows of carbon in lacustrine, marine, terrestrial, and global ecosystems; development of the carbon cycle over geologic time.

823*: Isotope Geochemistry
Spring of even-numbered years. 3(3-0) P: CEM 161 and 175; PHY 165 and 164; OR PHY 231 and 232. R: Masters and Ph.D. only. Fundamentals of isotope behavior, fractionation, and interpretation and application of isotope data (C, O, S, N, H). Radiogenic isotopes include geochronology (e.g., Rb/Sr) and environmental tracing.

831*: Quantitative Paleobiology
Spring of even-numbered years. 3(2-2) Interdepartmental with the Department(s) of Zoology. P: GLG 431 OR ZOL 342. R: Masters and Ph.D. only Analysis of selected paleobiological problems using quantitative techniques. Examples may include cladistics, morphometrics, ordination techniques, and stereology.

861*: Evolution of the Crust and Mantle
Fall of odd-numbered years. 3(3-0) P: GLG 461 R: Masters and Ph.D. only. Origin and evolution of the Earth’s crust and mantle. Petrology, seismology, and geophysics of the Earth. QP: GLG 462 QA: GLG 861

862*: Igneous Petrology
Fall of odd-numbered years. 4(3-2) P: GLG 461 R: Masters and Ph.D. only. Origin and evolution of magmatic systems. Relationship of igneous activity to tectonic setting. QP: GLG 462 QA: GLG 862

863*: Mineral-Water Interactions
Spring of odd-numbered years. 4(3-2) Interdepartmental with the Department(s) of Crop and Soil Sciences. R: Masters and Ph.D. only. GLG OR CSS. Mineralogy, petrology, and geochemistry of fluid-rock interactions in sedimentary and geochemical cycles, including rock and mineral weathering, soil formation, genealogy and burial diagenesis of sediments and sedimentary rocks, and metamorphism. QA: GLG 863

871*: Seismology and Seismodynamics
Spring of odd-numbered years. 3(3-0) May reenroll for a maximum of 6 credits. P: MTH 234, PHY 194 R: Masters and Ph.D. only. Seismological theory, earthquakes, quantitative modeling of the applications to Earth structure, seismic source mechanisms and seismodynamics. Behavior and deformation of the lithosphere. QP: MTH 215 PHY 289 QA: GLG 871

871A*: Seismology: Theory, Observation and Computation
Spring of odd-numbered years. 3(3-0) P: MTH 234, PHY 194 R: Masters and Ph.D. only. Seismology of the Earth, earthquakes and Earth structure. The use of seismogram inversion to model the Earth’s interior and earthquake source mechanisms. QP: MTH 215 PHY 289 QA: GLG 873

871B*: Geodynamics of the Lithosphere
Fall of odd-numbered years. 3(3-0) P: MTH 234, PHY 194 R: Masters and Ph.D. only. Application of seismological studies and numerical modeling to the study of geodynamic processes occurring within the lithosphere. QP: GLG 477 MTH 312 PHY 289 QA: GLG 877

881*: Sedimentary Petrology
Fall of odd-numbered years. 4(3-2) P: GLG 431, GLG 461 R: Masters and Ph.D. only. The origin of sedimentary particles and their chemical and physical alterations after deposition. Geochemical cycles in Earth history.

889*: Special Problems in Geophysical Sciences
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 6 credits. R: Masters and Ph.D. only. Individual study on problems in geochemistry, geophysics, geodynamics, hydrogeology, paleontology, petrology, sedimentology, structural geology and tectonics. QA: GLG 889

898*: Special Problems in Geological Sciences (MTC)
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 6 credits. R: Masters and Ph.D. only. Individual study on problems in applied and solid-earth geophysics, global and regional geodynamics, and polar earth sciences. QP: GLG 471 OR GLG 471 OR GLG 472 R: Masters and Ph.D. only.

898A*: Special Problems in Geophysics and Geodynamics
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 6 credits. R: Masters and Ph.D. only. Individual study on problems in geophysics and geodynamics. QP: GLG 471 OR GLG 471 OR GLG 472

898B*: Special Problems in Geophysics and Geodynamics
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 6 credits. R: Masters and Ph.D. only. Individual study on problems in geophysics and geodynamics. QP: GLG 471 OR GLG 471 OR GLG 472

898D*: Special Problems in Paleobiology
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 6 credits. R: Masters and Ph.D. only. Individual study on problems in paleobiology. QP: GLG 471 OR GLG 471 OR GLG 472

898E*: Special Problems in Petrology
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 6 credits. R: Masters and Ph.D. only. Individual study on problems in petrology. QP: GLG 462 QA: GLG 899

999*: Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 10 credits. Ph.D. only. Geosciences
QA: GLG 999

GERMAN

101*: Elementary German I
Fall. 4(4-1) German language, civilization, and culture for students without prior exposure to German. Development of all language skills in modern German. Emphasis on speaking German. QA: GRM 101. GRM 102

102*: Elementary German II
Fall. 4(4-1) P: GRM 101 or placement Continuation of GRM 101. German language, civilization, and culture. Development of all language skills in modern German. Emphasis on speaking German. QA: GRM 101. GRM 102

200*: Second Year German Review
Fall. 4(4-1) P: Placement or approval of department. R: Placement or approval of department. Review of vocabulary, grammar, and communication skills for incoming freshmen and transfer students. Reading, viewing, and discussion of a broad range of cultural texts and materials from the German-speaking world. QA: GRM 200

201*: Second Year German I
Fall. 4(4-0) P: GRM 200 or placement R: Not open to students with credit in GRM 200 Further development of language skills acquired at the first-year level. Reading, viewing, and discussion of a broad range of cultural texts and materials from the German-speaking world. QA: GRM 201. GRM 202

202*: Second Year German II
Fall. 4(4-0) P: GRM 200 or GRM 201 or placement Strengthening of vocabulary, grammar, and oral and written communication skills. Special topics such as popular music, literature, film, current events, culture. Transition course to advanced work in German studies. QA: GRM 202.
Courses are subject to revision and final approval.

GERMAN

290. Independent Study
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 8 credits.
R: Approval of the Department
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.
QA: GRM 299

301. Advanced German Language and Culture I
Fall, Spring. 3(3-0)
P: GRM 202 or placement
Selected review of German grammar and syntax. Development of advanced language skills-speaking, listening comprehension, reading, writing—through intensive work with authentic texts dealing with issues relating to the German-speaking world.
QP: GRM 203 QA: GRM 321 GRM 322

302. Advanced German Language and Culture II
Fall, Spring. 3(3-0)
P: GRM 301 or designated score on German placement test.
R: Not open to students with credit in GRM 312. Further work on advanced speaking, listening comprehension, reading, writing through intensive work with original texts dealing with contemporary issues relating to the German-speaking world. Oral reports and longer writing and listening compr.
QP: GRM 321 QA: GRM 322 GRM 323

311. Advanced German: Business Emphasis I
Fall. 3(3-0)
P: GRM 202 or designated score on German placement test. R: Not open to freshmen. Not open to students with credit in GRM 301 or GRM 302.
Development of proficiency through readings, discussions, and assignments based on materials dealing with the German economic system and Germany in world trade. Taught entirely in German.
QP: GRM 303 QA: GRM 331 GRM 332

312. Advanced German: Business Emphasis II
Spring. 3(3-0)
P: GRM 311 or designated score on German placement test. R: Not open to freshmen. Not open to students with credit in GRM 302.
Further readings, discussions, and assignments based on materials dealing with key areas of German business such as management and corporate hierarchies. Taught in German. Research paper required.
QP: GRM 332 QA: GRM 332 GRM 333

320. Appreciation of German Literature
Spring. 3(3-0)
P: GRM 202 or placement
Close reading of selected shorter literary texts in German; discussion of literary values and the relationship of literature to the individual and society. Methods of better understanding texts and interpreting their meaning.
QP: GRM 293 QA: GRM 351 GRM 352 GRM 353

340. German Life and Literature: Contemporary Period
Fall, Spring. 3(3-0)
P: GRM 202 or designated score on German placement test.
Post-World War II Germany through analysis of literary texts, documentary material, and film. Topics such as the problems of recovery and prosperity, Reunification, and Germany in Europe.
QP: GRM 293 QA: GRM 353 GRM 337

341. German Life and Literature: Historical Perspectives
Fall, Spring. 3(3-0)
P: GRM 202 or designated score on German placement test.
Historical, social, and cultural developments in the German-speaking world as revealed in textual material in German, including literature, essays, and film. Focus on at least three historical epochs before 1945.
QP: GRM 293 QA: GRM 336 GRM 351 GRM 352

400. Reading German for Graduate Students
Spring, Fall. 3(2-0)
P: Open only to graduate students, or approval of department. Not open to students with credit in GRM 101 or GRM 102.
German grammar and syntax, with emphasis on reading and translation in specialized fields.
QP: GRM 410 GRM 411

420. Language through Media in Contemporary Germany
Fall. 4(4.0) May reenroll for a maximum of 8 credits.
Written and oral analysis of issues in contemporary Germany as depicted in German media. Major writing project.
QP: GRM 323 GRM 333 QA: GRM 421

440. German Life and Literature: Cultural Difference
Fall. 3(3-0) May reenroll for a maximum of 6 credits.
P: GRM 340 or GRM 341; HST 205 or HST 206.
Values and beliefs of non-Germanized groups in German society including religious minorities and foreign workers, and of youth and women. German immigrants in the United States as seen through their writings. Influence of historical, cultural developments.
QP: GRM 353 OR GRM 337

441. German Life and Literature: Mainstream Culture
Spring. 3(3-0) May reenroll for a maximum of 6 credits.
P: GRM 341 or GRM 342; HST 205 or HST 206.
Values and beliefs of mainstream German cultural and political figures, as seen through the writings of religious and political leaders, educators, writers, and philosophers. Influence of historical and cultural developments.
QP: GRM 353 OR GRM 357

450. The Study of German Literature
Fall of odd-numbered years, Spring of odd-numbered years. 3(3-0)
P: GRM 340 and GRM 341
Periodization, canon formation, interpretative approaches, genre and selective authors in the context of German literature from 800 A.D. to the present.
QP: GRM 353 OR GRM 357

460W. Contrastive Analysis of German and English
Fall of even-numbered years, Spring of even-numbered years. 3(3-0)
P: GRM 302 or GRM 312
Systematic examination of grammatical, lexical, and phonological differences between English and German. Cross-cultural awareness. Major writing assignment.
QP: GRM 323 OR GRM 333 QA: GRM 434

461. Teaching German Language and Culture
Fall, Spring. 3(3-0)
P: GRM 302 OR GRM 312 C: GRM 460
Didactic treatment of linguistic and cultural material introduced in GRM 460. Teacher education candidate in German.
QP: GRM 323 GRM 333

490. Independent Study
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 8 credits.
R: Approval of the Department
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.
QA: GRM 499

491. Special Topics in German Studies
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 8 credits.
R: Approval of the Department
Special topics supplementing regular course offerings proposed by faculty on a group study basis.
QA: GRM 490

492. Senior Seminar
Spring. 4(4.0)
P: Two 400-level GRM courses. R: Open only to seniors in German. Approval of department, Capstone seminar. Integration of literary and cultural themes. Synthesis of the student's academic experiences in German studies. Major writing project.

493. Overseas Internship
Fall, Spring. 1 to 4 credits. May reenroll for a maximum of 4 credits.
P: GRM 102 or designated score on German placement test. R: Not open to freshmen and sophomores. Approval of department.
Experience to German life and language through participation in an approved overseas internship program. Capstone experience integrating work in German.

499. Senior Thesis Research
Fall, Spring. 1 to 4 credits. May reenroll for a maximum of 4 credits.
R: Approval of the Department
An individual research project supervised by a faculty member that demonstrates the student's ability to do independent research and submit or present a major paper.

801. Introduction to Graduate Studies in German
Fall. 3(2-0)
History and current status of the discipline; research methodology for literary and cultural study; writing within the profession.
QA: GRM 401

865. The German Language: Relationships, Development, and Varieties
Spring of odd-numbered years. 3(3-0)
Linguistic study of German: methodology and sources. Periodization of German, development of phonology, morphology, syntax, and lexicon, German dialects, social variants, expatriate German, relationship to other languages.
QA: GRM 435

810. Theory and Practice of Teaching German
Fall. 3(3-0)
Theory and practice of teaching university level German language and literature and culture; includes teaching methods and developments in second language acquisition, constructive and error analysis, descriptive German grammar, materials development.
QA: GRM 810

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.
830P. Germanic Languages and Linguistics (MTC)  
Spring of even-numbered years. 3(3-0)  
May reenroll for a maximum of 9 credits.  
P: GRM 805 or permission of department.  
Specialized topics in Germanic languages and linguistics, including medieval German, Old Norse, German dialects and socioclects, and applied German linguistics.  
QA: GRM 435  
830A*. Medieval German  
Spring of even-numbered years. 3(3-0)  
Phonological, grammatical, and lexical structure of Medieval German. Intensive reading of selected High and Low German prose and poetic texts from the 8th to the 13th centuries.  
830B*. Old Norse  
Spring of even-numbered years. 3(3-0)  
Phonological, grammatical, and lexical structure of Medieval Scandinavian and relations to other Germanic languages. Intensive and extensive reading of selections from Icelandic sagas, Eddic and skaldic poetry and runes inscriptions.  
830C*. German Dialects and Sociolccts  
Spring of even-numbered years. 3(3-0)  
Variation of Modern German and its geographical and social conditions.  
830D*. Functional Descriptions of German Grammar  
Spring of even-numbered years. 3(3-0)  
Investigation of the discourse or interactional functions associated with verbal forms in modern German. Methods of analyzing spoken and written German data from a functional perspective. Theories of functional grammar.  
851*. German Life and Literature: Pre-18th Century Studies  
Fall of odd-numbered years. 3(3-0)  
May reenroll for a maximum of 9 credits.  
Exemplary study of the High Courtly Period, the Reformation Era, or the Baroque, in which several major movements are examined in a variety of discourses.  
QA: GRM 852  
855P. German Life and Literature: 18th Century Studies  
Fall of odd-numbered years. 3(3-0)  
May reenroll for a maximum of 9 credits.  
Exemplary study of Enlightenment, Storm and Stress, Sentimentality, or Classicism within a variety of discourses.  
QA: GRM 853  
855A*. German Life and Literature: 19th Century Studies  
Spring of even-numbered years. 3(3-0)  
May reenroll for a maximum of 9 credits.  
Exemplary study of Romanticism, Biedermeier, Young Germany, Poetic Realism, or Naturalism within a variety of discourses.  
QA: GRM 854  
855*. German Life and Literature: 20th Century Studies  
Fall of even-numbered years. 3(3-0)  
May reenroll for a maximum of 9 credits.  
Exemplary study of selected periods and movements of German literature of the 20th century, such as Expressionism, Impressionism, the Third Reich, documentary literature, and contemporary literature.  
QA: GRM 855  
861*. German Culture and Society (MTC)  
Spring. 3(3-0)  
May reenroll for a maximum of 9 credits.  
Values and beliefs of German-speaking people in selected historical periods as seen through written and visual textual records. Theory of cultural studies. Use of texts to present, propagate, criticize or revoke social standards and norms.  
QA: GRM 856  
861A*. The Imperial City Around 1500  
Spring. 3(3-0)  
Values and beliefs of German urban culture around 1500 based on textual evidence from Nuremberg and neighboring cities; the common weal, the Reformation, the Peasants' War, scribnerly, Durers, Wtibald and Caritas Pirckheimer, Sachs, and Luther.  
QA: GRM 856  
861B*. Women's Worlds: Fantasy and Reality  
Spring. 3(3-0)  
Exploration of witch-hunt phenomenon in German-speaking areas of Europe from late medieval to early modern period from Feminist perspective. Required work with original documents in MSU Library's "Special Collections."  
QA: GRM 856  
880P. Independent Study  
Fall, Spring, Summer. 1 to 6 credits.  
May reenroll for a maximum of 9 credits.  
R: Approval of the Department  
Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.  
QA: GRM 860  
881*. Special Topics in German Studies  
Fall, Spring, Summer. 1 to 6 credits.  
May reenroll for a maximum of 12 credits.  
R: Approval of the Department  
Special topics supplementing regular course offerings proposed by faculty on a group study basis for graduate students.  
882*. Seminar  
Fall. Spring. 3(3-0)  
May reenroll for a maximum of 9 credits.  
P: GRM 801 and one other GRM 800-level course  
R: Permission of department  
Directed research leading to a master's thesis, used in partial fulfillment of plan A master's degree requirements.  
QA: GRM 951  
888*. Master's Thesis Research-Plan A  
Fall, Spring. Summer. 1 to 6 credits.  
May reenroll for a maximum of 12 credits.  
R: Approval of the Department  
Directed research leading to a master's thesis, used in partial fulfillment of plan A master's degree requirements.  
QA: GRM 959  
990P. Doctoral Independent Study  
Fall, Spring, Summer. 1 to 6 credits.  
May reenroll for a maximum of 12 credits.  
R: Approval of the Department  
Special projects, directed reading, and research arranged by an individual doctoral candidate and a faculty member in areas supplementing the regular course offerings.  
991P. Special Topics in German  
Fall, Spring, Summer. 1 to 6 credits.  
May reenroll for a maximum of 12 credits.  
R: Approval of the Department  
Special topics supplementing regular course offerings proposed by faculty on a group study basis for doctoral candidates.  
GA: GRM 999  
GRK  
101P. Elementary Classical Greek I  
Fall of even-numbered years. 4(4-0)  
Fundamentals of orthography, pronunciation, vocabulary, grammar, and syntax. Translation of elementary readings.  
QA: GRK 101  
102P. Elementary Classical Greek II  
Spring of odd-numbered years. 4(4-0)  
P: GRK 101 or permission of department  
R: GRK 101 or placement  
Fundamentals of vocabulary, grammar, and syntax. Translation of elementary readings.  
QA: GRK 102  
290P. Independent Study  
Fall, Spring, Summer. 1 to 4 credits.  
May reenroll for a maximum of 4 credits.  
R: Approval of the Department  
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.  
QA: GRK 299  
301P. Homer and the Archil Age  
Fall of odd-numbered years. 3(3-0)  
P: GRK 102 or approval of department.  
Homerian and Archilche Greek literature. Homer, Ixion, Achilochlos, Sappho, Alcman and others.  
QA: GRK 103  
302P. Greek Poetry  
Spring of even-numbered years. 3(3-0)  
P: GRK 102 or approval of department.  
Classical Greek poetry. Aeschylus, Sophocles, Euripides, Aristophanes and others.  
QA: GRK 103  
401P. Greek Prose  
Fall of even-numbered years. 3(3-0)  
P: GRK 301, GRK 302.  
Classical Greek prose literature; Aristotle, Plato, Lyricus, Demosthenes, Isocrates, and others.  
QA: GRK 306  
402P. Hellenistic Literature  
Spring of odd-numbered years. 3(3-0)  
P: GRK 301, GRK 302.  
Literature of the Hellenistic period through the second sextarchy. Theocritus, Callimachus, Apollonius, Longus and others.  
QA: GRK 200