Students engage in expressive writing to respond to reading in clear and direct prose. Students write personal essays and read autobiographical materials, making use of college-level readings.

1154. Developmental Writing II
Fall, Winter, Spring. 3(3-0) ATL 0142. ATL 1144 or approval of department; ATL 0153 concurrently.
Interpretive, analytical, and expository writing in response to college-level reading.

1164. Developmental Writing III
Fall, Winter, Spring. 3(3-0) ATL 0152. ATL 1154 or approval of department; ATL 0162 concurrently.
Students write analytical/critical/persuasive papers and undertake a research project. Reading of college-level materials.

117. Use of Libraries
Fall, Winter. 1(1-0)
The use of libraries, with emphasis on MSU Library. Course will stress knowledge and use of bibliographic and reference resources.

121. Writing: American Expression
Fall, Winter, Spring. 3(3-0) Satisfactory performance on the placement test.
Writing course to improve composition and critical reading abilities. Writings based on American literary and historical materials from Puritan times through the Enlightenment. Emphasis on unity and style of essays.

122. Writing: American Expression
Fall, Winter, Spring. 3(3-0) Three credits in the first term of any ATL sequence numbered 121 or higher or approval of department.
Writing course to improve composition and critical reading abilities. Writings based on American literary and historical materials of the nineteenth century. Emphasis on style and development of essays.

123. Writing: American Expression
Fall, Winter, Spring. 3(3-0) Three credits in the second term of any ATL sequence numbered 121 or higher or approval of department.
Writing course to improve composition and critical reading abilities. Writings based on American literary and historical materials of the twentieth century. Research project required.

131. Writing: Major Currents in American Experience
Fall. 3(3-0) Satisfactory performance on the placement test.
Writing course to improve composition and critical reading abilities. Writings based on materials concerning cultural pluralism in America. Emphasis on unity and structure of essays.

132. Writing: Major Currents in American Experience
Winter. 3(3-0) Three credits in the first term of any ATL sequence numbered 121 or higher or approval of department.
Writing course to improve composition and critical reading abilities. Writings based on materials concerning cultural pluralism in America. Emphasis on style and development of essays.

133. Writing: Major Currents in American Experience
Spring. 3(3-0) Three credits in the second term of any ATL sequence numbered 121 or higher or approval of department.
Writing course to improve composition and critical reading abilities. Writings based on materials concerning cultural pluralism in America. Research project required.

141. Writing: American Humanities
Fall. 3(3-0) Satisfactory performance on the placement test.
Writing course to improve composition and critical reading abilities. Writings based on American literature, painting, music, and architecture before 1800. Emphasis upon unity and structure of essays.

142. Writing: American Humanities
Winter. 3(3-0) Three credits in the first term of any ATL sequence numbered 121 or higher or approval of department.
Writing course to improve composition and critical reading abilities. Writings based on American literature, painting, music, architecture and sculpture of the nineteenth century. Emphasis upon unity and development of essays.

151. Writing: American Minorities
Spring. 3(3-0) Three credits in the second term of any ATL sequence numbered 121 or higher or approval of department.
Writing course to improve composition and critical reading abilities. Writings based on minority literature from mythology to experiences of immigrants and ex-slaves. Emphasis upon unity and structure of essays.

152. Writing: American Minorities
Winter. 3(3-0) Three credits in the first term of any ATL sequence numbered 121 or higher or approval of department.
Writing course to improve composition and critical reading abilities. Writings based on minority literature from Reconstruction, Indian wars and end of European immigration. Emphasis upon style and development of essays.

153. Writing: American Minorities
Spring. 3(3-0) Three credits in the second term of any ATL sequence numbered 121 or higher or approval of department.
Writing course to improve composition and critical reading abilities. Writings based on minority literature from Reconstruction, Indian wars and end of European immigration. Emphasis upon style and development of essays.

161. Writing: American Radical Thought
Fall. 3(3-0) Satisfactory performance on the placement test.
Writing course to improve composition and critical reading abilities. Writings based on dissenting thought from the colonial to the early national period. Emphasis upon unity and structure of essays.

162. Writing: American Radical Thought
Winter. 3(3-0) Three credits in the first term of any ATL sequence numbered 121 or higher or approval of department.
Writing course to improve composition and critical reading abilities. Writings based on the literature of dissent in American society from 1830 to 1938. Emphasis on style and development of essays.
163. Writing: American Radical Thought  
Spring. 3(3-0) Three credits in the second term of any ATL sequence numbered 121 or higher or approval of department.  
Writing course to improve composition and research abilities. Writings based on the literature and history of the New Left and contemporary dissent in America. Research project required.  

171. Writing: America on Film  
Fall. 3(3-2) Satisfactory performance on the placement test.  
Writing course to improve composition abilities. Writings and readings based on American films and film adaptations of American literature. Emphasis upon unity and structure of essays.  

172. Writing: America on Film  
Winter. 3(3-2) Three credits in the first term of any ATL sequence numbered 121 or higher or approval of department.  
Writing course to improve composition abilities. Writings and readings based on American films and film adaptations of American literature. Emphasis upon unity and style of development of essays.  

173. Writing: America on Film  
Spring. 3(3-2) Three credits in the second term of any ATL sequence numbered 121 or higher or approval of department.  
Writing course to improve composition and research abilities. Writings and readings based on analysis of major social issues as reflected in American film, e.g., Western, Gangster. Emphasis on style and development of essays.  

181. Writing: Women in America  
Fall. 3(3-0) Satisfactory performance on the placement test.  
Writing course to improve composition and critical reading abilities. Writings based on critical works introducing contemporary and historic American feminist issues. Emphasis on unity and structure of essays.  

182. Writing: Women in America  
Winter. 3(3-0) Three credits in the first term of any ATL sequence numbered 121 or higher or approval of department.  
Writing course to improve composition and critical reading abilities. Writings based on American women from pre-Colonial times through First Wave Feminism. Emphasis on style and development of essays.  

183. Writing: Women in America  
Spring. 3(3-0) Three credits in the second term of any ATL sequence numbered 121 or higher or approval of department.  
Writing course to improve composition and critical reading abilities. Writings based on women in American life and literature from 1920 to the present. Research project required.  

191H. Honors Writing: The American Experience  
Fall. 3(3-0) Satisfactory performance on the placement test.  
Writing course to improve composition and critical reading abilities. Writings based on analysis of selected material from Colonial to early nineteenth century topics.  

192H. Honors Writing: The American Experience  
Winter. 3(3-0) Satisfactory grade in the first term of any ATL sequence numbered ATL 121 or above.  
Writing course to improve composition and critical reading abilities. Writings based on analysis of selections from the late nineteenth and early twentieth centuries.  

193H. Honors Writing: The American Experience  
Spring. 3(3-0) Satisfactory grade in the second term of any ATL sequence numbered ATL 121 or above.  
Writing course to improve composition and research abilities. Writings based on analysis of twentieth century materials reflecting American issues.  

205. Reading for University-Level Understanding  
Fall, Winter, Spring. 2(0-4) May reenroll for a maximum of 4 credits.  
Individualized instruction in techniques for improving vocabulary, comprehension, rate, study skills and test taking skills in order to achieve a better understanding of university-level materials.  

292. Selected Topics  
Fall, Winter, Spring. 3 to 5 credits.  
May reenroll for a maximum of 8 credits if different topic is taken.  
Interdisciplinary study of topics in American culture.  

300. Supervised Individual Study  
Fall, Winter, Spring. Summer. 2 to 4 credits. May reenroll for a maximum of 12 credits.  
Selected students requesting individual study of interdisciplinary problems. Variable elective credit will be determined when the student selects instructor, adviser, and department approval.  

ANATOMY  

College of Human Medicine  
College of Osteopathic Medicine  
College of Veterinary Medicine  

216. Applied Human Anatomy  
Fall. Spring. 5(4-3) HPR major or minor.  
Structural anatomy of the various systems of the human body. Concepts of kinesiological applications.  

316. General Anatomy  
Fall, Spring. 5(5-0) B S 211 or B S 212 or approval of department.  
Designed to impart the basic concepts of the broad field of anatomy. Special requirements of the various disciplines will be met in their respective laboratories.  

420. Microscopic Anatomy  
Winter. 5(2-8) Medical Technology students or approval of department.  
Microscopic study of the structure of cells, tissues and organs.  

480. Special Problems  
Fall, Winter, Spring. Summer. 1 to 5 credits. May reenroll for a maximum of 15 credits. Approval of department.  
Individually study or project under the direction of a faculty member in biomedical research, gross anatomy, histology, neurology, or embryology.  

505A. Anatomy in Physical Diagnosis  
Fall. 1 to 3 credits. H M 505 concurrently.  
Exercises in which students study systemic anatomy in a physical diagnosis context. Preparatory self-instruction precedes exercises.  

510. Veterinary Gross Anatomy  
Fall. 6(3-5) First-term Veterinary Medicine students.  
Gross anatomy of a representative animal, the dog, is studied. Lecture, dissection of embalmed specimens, study of projections, slides, models and living animals.  

511. Veterinary Histology  
Fall. 5(3-6) First-term Veterinary Medicine students.  
A general histology course for veterinary students which includes a survey of the tissue of the animal body.  

512. Veterinary Neuro Anatomy  
Winter. 2(2-0) Second-term Veterinary Medicine students.  
Gross anatomy of the central nervous system in animals emphasizing functional and dysfunctional aspects of pathways and nuclei in dogs as a foundation for clinical neurology.  

513. Veterinary Microscopic Anatomy  
Winter. 4(2-4) Second-term Veterinary Medicine students.  
Microscopic anatomy of the digestive, urinary, respiratory, male and female reproductive systems, integumentary system, central nervous system and special sense organs of domesticated animals.  

514. Veterinary Comparative Anatomy  
Winter. 5(4-4) Second-term Veterinary Medicine students.  
Lecture, dissection of embalmed specimens and the study of projections, models and live animals related to the anatomy of the domestic animals.  

540. Gross Biomedical Structure  
Winter. 1 to 15 credits. May reenroll for a maximum of 15 credits. Admission to a college of medicine; graduate students with approval of department.  
Regional gross anatomy of the back, thorax, abdomen, pelvis and perineum.  

541. Gross Biomedical Structure  
Spring. 1 to 15 credits. Admission to a college of medicine; graduate students with approval of department.  
Regional gross anatomy of the head and neck.  

543. Human Histology  
Fall. 4(2-4) Human Medicine students; approval of department for graduate students.  
The structure and function of human cells, tissues, and organs.  

544. Human Ontogenesis  
Fall. 3(3-0) Admission to a college of medicine; graduate students with approval of department.  
Formal lectures, class conferences and student reports on the normal and abnormal organogenesis of the human embryo and fetus with emphasis on clinical correlations.