ENGL 3003 Technical Writing for Nontechnical Majors (3) Prereq.: junior status. Credit will not be given for both ENGL 3002 and 3003 and 3102. This course will not substitute for 3002 requirement. Formats and processes of writing found in business, science, government, and industry.

3004 Writing with Style: Advanced Expository Prose (3) Experimentation with different styles of writing in a workshop forum.

3015 Composition Tutoring (3) Prereq.: consent of instructor. 1 hr. lecture; 6 hrs. lab. Composition theory as applied to undergraduate writing; emphasis on current strategies such as reader response, cognitive theory, and cultural analysis.

3020 British Literature I: The Middle Ages, Renaissance, and 18th Century (3) Survey of English literature from the Anglo-Saxon period through Chaucer, Shakespeare, the 17th and 18th centuries.

3022 British Literature II: Romantics, Victorians, and Moderns (3) Survey of British literature from the French Revolution through the Industrial Revolution into the 20th century.

3024 Criticism (3) Influential works of literary criticism from the classical to the modern period.

3070 American Literature I: Forging a Nation (3) Emergence of an American literature and national consciousness in major writings from the Colonial era to the Civil War.

3072 American Literature II: Coming of Age (3) American literature from 1830 to 1900; realism, naturalism, modernism; effects of industrialization, immigration, the women's movement, the civil rights struggle, and the world wars.

3080 Post-colonial Literature (3) Survey of literature from former British colonies in South Asia, Africa and the Caribbean; colonialism; post-coloniality; diaspora; transnationalism; hybridity; women's rights; building a new nation, etc.

3086 Modern Criticism (3) Influential works of literary criticism and theory written in the 20th century.

3088 Contemporary Fiction (3) Survey of contemporary fiction from a comparative perspective; authors such as Achebe, Bellows, Garcia Marquez, Lessing, Morrison, Pynchon, Updike; developments in magical realism, minimalism, cyberpunk.

3101 Legal Writing (3) Credit will not be given for both this course and ENGL 2001. Discussions and writing assignments tailored to forms of writing common in law and in law-related fields; emphasis on writing clear, precise, effective prose.

3102 Technical Writing for International Students (3) Prereq.: oral interview and permission of department. Practice in the processes of academic and applied writing.

3103 English 2000 English Composition (3) Credit will not be given for both ENGL 2001 and 3101. Theory and practice of composition; emphasis may vary, consult department.

3104 Introduction to Technical Writing (3) Prereq.: ESL 2002 and 3101. Writing for technical fields and non-native speakers of English in skills required of practicing scientists, engineers, and technical managers.

3114 The Literature of the English Bible (3) Of the following: ENGL 3002, 3003, 3102. Training for non-native speakers of English in skills required of practicing scientists, engineers, and technical managers.

3124 The Literature of the English Bible (3) Also offered as REL 3124. Literary themes and forms in the King James version; particular reference to the literary influence of the Bible on later literature.


3202 Dynamics of Learning in the English Classroom (3) Consult department for field experience in multicultural settings. Language development and diversity of adolescent speakers, writers, and readers of English.

3204 English Language and Cultural Studies (3) Also offered as REL 3204. Survey of English literature in historical and cross-cultural dimensions. Language development and diversity of adolescent speakers, writers, and readers of English.

3206 English Language and Cultural Studies (3) Also offered as REL 3204. Survey of English literature in historical and cross-cultural dimensions.

3222 Survey of Popular Genres (3) Survey of such genres as ballads, miracle and morality plays, broadsides, melodrama, romance, detective fiction, science fiction, westerns, situation comedies.

3223 Adolescent Literature I & II (3) Also offered as REL 3223. Critical analysis and survey of literature with adolescents as main characters and written for adolescent and adult audiences.

3236 Literature and Religion: an Overview (3) Also offered as REL 3236. Comparative study of the literary representation of religions in different cultures; texts; writers studied may include Aeschylus, Dante, Shakespeare, Melville, and Walker Percy.

3238 Rhetoric: Theory and Practice (3) Development of rhetoric and written within their cultural contexts; modes of writing and rhetoric particular to historical periods, classical to modern.

3301 Writing: Practice, Pedagogy, and History (3)
Cultural, technological, and historical influences on writing, the teaching of writing, and today's teaching practices.

3031 Special Topics in Creative Writing (3) Prereq.: ENGL 2000, or permission of instructor. May be taken for a max. of 9 hrs. of credit when topics vary. Topics such as "The Beginnings of English Drama," "Shakespeare's Contemporaries," "Irish Drama," "Women in the Theatre," etc.

4029 Studies in Comedy and Tragedy (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Shakespeare, Congreve, Sheridan, Shaw, Synge, O'Neill, Miller, O'Neill, Beckett, Pinter; topics such as "The Tragic Vision," "Comic and Tragic Drama," "Reformation Fools and Folly," 4030 Studies in the Romantic Movement (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Chaucer, Langland, the Gawain poet, Juliana of Norwich; topics such as "the English Lyric," "Romance," "Dream Vision and Allegory," "Reading Anglo-Saxon Literature." 4033 Studio and Irony (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Jonson, Dryden, Swift, Pope, Twain, Waugh, Vonnegut, Atwood; topics such as "Satire on the Jacobean Stage," "Political Satire," "The Tropes of Satire." 4040 Studies in the Age of Elizabeth (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Jonson, Dryden, Swift, Pope, Twain, Waugh, Vonnegut, Atwood; topics such as "Satire on the Jacobean Stage," "Political Satire," "The Tropes of Satire." 4041 Studies in the 17th Century (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Donne, Jonson, Pepys, Defoe; demonstrations in metaphorical poetry, revenge tragedy, urban comedy, courtly masque; topics such as "Public Playhouse and Court Stage," "Pompeii and Politics," "The Politics of Satire." 4050 Studies in the Restoration and 18th Century (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Dryden, Swift, Pope, Voltaire; topics such as "Swift and Richardson," "Rationalism," "Sentimental Fiction," "Theories of Writing." 4055 Studies in the Novel and the Idea of Narrative (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Fielding, Richardson, Austen; developments in satire, comedy of manners, the novel; topics such as "The Line of Wit," "Literary and Literary History." 4060 Studies in the Revolutionary Age (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Goethe, Wordsworth, Coleridge, Byron, Percy and Mary Shelley, Keats; topics such as "Romanticism and the French Revolution," "The Poetic Imagination," "The Romantic Novel." 4062 Studies in the Victorian Age (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Dickens, the Brontës, Thackeray, Elyot, Tennyson, Browning, Arnold, Ruskin, Wilde; topics such as "The Bildungsroman," "London, Crime, and Victorian Literature," "The Victorian Heroine." 4070 Studies in American Literature to 1865 (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Hawthorne, Douglass, Melville, Whitman, Dickinson; themes such as American identity, nature and culture; topics such as "The Puritan American," "Rethinking the American Renaissance." 4071 Studies in American Literature since 1865 (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Twain, James, Whitman, Eliot, Moore, Hughes, Cather, Ellison, Faulkner; developments in the novel, poetry, nonfiction prose; topics such as "The American Self," "Naturalism," "Postmodernism." 4080 Studies in Modernism (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Pound, Eliot, Stein, Joyce, Woolf, and Faulkner; topics such as "The Avant-Garde Movements in the Arts," "Nationalism and Literature," "War Poetry," "The Expatriates." 4086 Studies in the Short Story (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Chekhov, Joyce, Hemingway, Carter, Wright, Garcia Marquez, Bellow, Updike, Mailer, Poe, Frank O'Connor, Friedman, Pratt; problems such as short story structure, sequences, beginnings and endings, compression, conflict, point of view. 4087 Studies in the Novel (3) Prereq.: ENGL 4007, 92 total credit hrs. and 27 hrs. in English beyond ENGL 2000, or permission of instructor. Advanced seminar in which students consolidate their knowledge in writing and obtain a perspective on the significance of that knowledge. Independent research project.

4104 Capstone Seminar in Literature (3) Prereq.: for English Majors with 92 total credit hrs. and 27 hrs. in English beyond ENGL 2000, or permission of instructor. Advanced seminar in which students consolidate their knowledge in writing and obtain a perspective on the significance of that knowledge. Independent research project. Course topics will vary.

4105 Capstone Seminar in Writing Fiction (3) Prereq.: ENGL 4005, 92 total credit hrs. and 27 hrs. in English beyond ENGL 2000, or permission of instructor. Advanced seminar in which students consolidate their knowledge in writing fiction and obtain a perspective on the significance of that knowledge. Independent research project.

4109 Capstone Seminar in Screenwriting (3) Prereq.: ENGL 4009, 92 total credit hrs. and 27 hrs. in English beyond ENGL 2000, or permission of instructor. Advanced seminar in which students consolidate their knowledge in screenwriting and obtain a perspective on the significance of that knowledge. Independent research project.

4120 Studies in Major Authors (3) May be taken for a max. of 6 hrs. of credit when topics vary. Detailed readings by one or two authors: Hemingway, Hemingway, Twain, Twain, Donne to Joyce and Morrison; attention to the author's life and times, predecessors and influence.

4121 Studies in Literary History (3) May be taken for a max. of 6 hrs. of credit when topics vary. Topics such as "Literature and the King's Peace," "The Development of the Pastoral," "From Romantic to Victorian: A Study of Influence," "Self and Society." 4122 Topics in Interdisciplinary Studies (3) May be taken for a max. of 6 hrs. of credit when topics vary. Literature in cultural contexts and/or in relation to other academic disciplines; topics such as "Fictions of the Working Class," "Race in Literature and Culture," "Modemism and Revolution." 4124 Studies in Critical Traditions and Problems (3) May be taken for a max. of 6 hrs. of credit when topics vary. Topics such as "History and Theory," "Neoclassic to Romantic," "Imitation and Creation," "Feminist Literary Theory," "Philosophy and Literature," "Comparative Literature." 4137 Studies in Chaucer (3) Attention to The Canterbury Tales, their literary and cultural significance; topics such as "Chaucer, His Times," "The Literature of the Olden Time," "Chaucer's Moral and Religious Teachings," "The Olden daunce," Chaucer on Love, Sex, and Marriage.

4147 Studies in Milton (3) Attention to Paradise Lost, Paradise Regained, and Samson Agonistes; their literary and cultural significance; topics such as "Paradise Lost and the Christianization of the Epic," "Milton and Women," "Milton and Revolution." 4148 Studies in Shakespeare (3) May be taken for a max. of 6 hrs. of credit when topics vary. Attention to poetry and plays, their literary and cultural significance; topics such as "The Comedies and Histories," "The Tragedies," "Shakespeare and Film," "Shakespeare and Gender." 4173 Studies in Southern Literature (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Chopin, Faulkner, Wright, Welty, Tennessee Williams; topics such as "Survey of Southern Literature," "Civil Rights Literature," "Historical Fiction," "Southern Women Writers." 4203 Curricula, Pedagogy, and Assessment in English Education (1) Prereq.: EDSD 3002 and ENGL 3202. Concurrent enrollment in EDSD 4003. 3 hrs. lab/field experience in multicultural, small-group instructional contexts of course design, pedagogy, and assessment for teaching English in middle school and high school classrooms.

4208 Capstone Seminar in English Education (3) Prereq.: ENGL 4003 and ENGL 4203. Concurrent enrollment in EDSD 4004 and 4005. For English majors in the southern Education Core, the English Education course. Research project. Course topics will vary. Advanced seminar in which students consolidate their knowledge in English and obtain a perspective on the significance of the knowledge.

4220 Black Drama and Theatre (3) See THTR 4220.

4222 Studies in Popular Fictions (3) May be taken for a max. of 6 hrs. of credit when topics vary. Topics such as "Louisiana Popular Fictions," "Images of Women and Minorities in Popular Texts," "Popular Culture and Folklore," "The Literature of Horror." 4231 Studies in Literature and Film (3) May be taken for a max. of 6 hrs. of credit when topics vary. Comparative study of literature and film as art forms; literary bases of film; topics such as "Film Authors," "Film and Ideology," "Adaptations of Literary Classics," "Film Genres," "Film and Television." 4232 Studies in Literature and Psychology (3) May be taken for a max. of 6 hrs. of credit when topics vary. Psychoanalytic readings of literature such as Hamlet, literary readings of psychoanalytic authors such as Freud, Jung, Lacan; topics such as "Feminism and Psychoanalysis," "Psychoanalytic Literature." 4236 Studies in Literature and Religion (3) Also offered as REL 4236. May be taken for a max. of 6 hrs. of credit
ENTOMOLOGY • ENTM

2001 Insects in the Environment (3) Prereq.: BIOL 1201; 2001; or another BIOL 1502 or BIOL 1001; 1002, 1003, 1004; or 2 hr. lecture; 2 hr. labs. Insect recognition, classification, and life cycles; factors affecting insect diversity; interactions between insects and the natural environment.

2050 Introduction to Pest Management (4) See PLHL 2050.

3000 Pest Management Internship (3) Su See PLHL 3300.

3002 Pest Management Seminar (1) F See PLHL 3002.

4031 Household and Structural Pests (3) E-F, ENMT 2001. 2 hr. lecture; 2 hr. lab. Recognition, biology, and management of pests found in structures.

4002 Insect Biology (3) Prereq.: BIOL 2013; insect consent of instructor. No entomology training necessary. Biological, biochemical, and ecological principles as they relate to the success of insects.

4005 Insect Taxonomy (4) S-O, ENMT 2001. 2 hr. lecture; 4 hr. lab. A collection is required. Identification, classification, and evolutionary relationships, and life histories of insects at the family level.

4006 Fundamentals of Applied Entomology (3) S Prereq.: athletes in major semesters of the year. Service learning component. Ecological principles pertaining to pest management, interdisciplinary perspective.

4007 Forensic Entomology (3) S-O, 2 hr. lecture; 2 hr. lab. No entomology training necessary. Determining the success and failure of homicides and other pathological insects and other arthropods on carcasses; estimate time of death using insects; learning investigative procedures used by detectives and forensic entomologists in the review of case studies from crime scene to courtroom.

4011 Biology and Management of the Honey Bee (3) S-E, Prereq.: BIOL 1502 or BIOL 1505; or ENMT 2001; 1002, 1003, 1004 or consent of instructor. 2 hr. lecture; 2 hr. lab. Behavior, genetics, pollination, pests, practical management of honey bees for agricultural and scientific purposes.

4012 Fundamentals of Horticultural Entomology (3) S Prereq.: lab. in course. Principles of insect control; recognition of major pest species of insects and mites and their injury to horticultural plants; economic and aesthetic injury thresholds; methods of control, including identification and utilization of beneficial species.

4015 Conservation Biology (4) F Prereq.: 11 sem. hrs. biological sciences; genetics recommended; permission of department. 1 hr. discussion. Same as BIOL 4013. Underlying principles and concepts of conservation biology; practical applications to preserves and human society; threats to and importance of biological diversity; human responsibilities as global land stewards.

4016 Introduction to Insect Physiology (3) S-E, Prereq.: 12 hrs. of ENMT or biological sciences; 1 hr. of organic chemistry or biochemistry. 2 hr. lecture; 3 hr. lab. Also offered at BIOL 4016. Basic functions of insects; principles of physiology, including growth, development, and chemical communication systems.

4017 Laboratory in Conservation Biology (2) 2 hrs. laboratory. Coreq. ENMT/ENTM 4015 or equivalent. Same as BIOL 4017.

4018 Forest Insects and Diseases (4) F Prereq.: BIOL 1502, 1505, or 1509; EFL 1402; or BIOL 1201, 1208. Also offered at PLHL 4018. 3 hr. lecture; 2 hr. lab. One day-long field trip. Identification, ecology, epidemiology, and control of forest insects and diseases.

4040 Insect Ecology (3) S Prereq.: BIOL 1201 and 1208 or equivalent or consent of instructor. Two Saturday field trips. Study of land and water insects, including insect physiology, plant-pest interactions, and effects of plant diversity on natural systems.

4099 Undergraduate Entomological Research (1-3) F-S, Su Prereq.: ENTM 2001 or 2050 or 4018 or equivalent. Not for graduate credit. Prereq.: 4 hrs. of credit. Supervised entomological research in a laboratory or field setting; data collection and interpretation of results. 4018 Insect Behavior (3) F-O, Prereq.: ENTM 2001, 2050, or consent of instructor. Current and classical concepts in behavioral theory; communication systems; stimuli orientation, social interaction; aspects of insect control using behavior modification.

4199 Special Topics in Entomology (1-3) V Prereq.: consent of instructor. Lab. in course. Topics max. of 9 sem. hrs. of credit when topics vary. Lab field trip may be required. Subjects not covered in other entomology courses.

4001 General Entomology (4) Prereq.: lab. in entomology training necessary. 3 hr. lecture; 3 hr. labs. Provides a framework of information about the evolution of insects and related arthropods, anatomy, functional morphology and physiology, and a basic understanding of insect diversity at the ordinal level.

7002 Plant Resistance to Arthropods (4) F-O Prereq.: consent of instructor. 3 hr. lecture; 3 hr. lab. Detailed study of the mechanistic basis of plant-insect interactions, with special reference to host-plant resistance in agricultural systems; integrates relevant concepts from diverse fields including insect physiology, plant physiology, plant biochemistry, and ecology; evaluation of the current theoretical basis for research in plant-insect interactions; laboratory demonstrations and experiments to emphasize the techniques used in host-plant resistance research.

7003 Ecological and Postcolonial Veterinary Entomology (F) F-O Prereq.: ENMT 2001 or equivalent. 3 hr. lecture; 3 hr. lab. Relationship of insects and other arthropods to human and animal health.

7005 Classification of Immature Forms of Insects (3) S-O, Prereq.: ENMT 4005 or equivalent. 2 hr. lecture; 2 hr. lab.

7006 Advanced Pest Management (3) F-O Prereq.: ENMT 4006 and 4000 or higher level science course (EXST 4050, 7003, 7004, 7015, 7013, 7014, 7015, and 7031) or consent of the coordinator. Ecological and economic basis of pest management; advances in major pest management tactics; insect sampling; system analysis, biotechnology and geographical information system in pest management.

7007 Seminar in Entomology (1) F-S. May be repeated for additional credit; maximum of 9 sem. hrs. credit in degree in entomology.

7008 Special Topics in Entomology (3) F-S. Prereq.: consent of department head. May be taken for a max. of 6 sem. hrs. credit when topics vary. Lectures and/or labs on advanced topics in entomology not covered in other courses.

7100 Teaching Practicum (1-3) F-S Prereq.: students whose native language is not English must pass the Michigan Test of English proficiency, or EOGM 0004 or equivalent, and receive prior approval of student’s graduate committee and supervising faculty. Open only to entomology PhD students. May be taken for a max. of 6 sem. hrs. credit. Teaching practicum and learning experience under the supervision of a graduate faculty member. Pass/fail grading based on a written evaluation by the supervisor and a written report by the student. Support one faculty member’s teaching through grading assignments and exams, developing and conducting laboratories, as needed and directed by the supervising faculty. Student will be exposed to different learning styles and various teaching approaches. Course credit will range from 1-3 hrs. depending on anticipated involvement.

7114 Insect Morphology and Phylogeny (3) F-O Prereq.: 6 sem. hrs. of 4000-level entomology courses or equivalent, or consent of instructor. 2 hr. lecture; 3 hr. lab. Comparative morphology of insects with a conceptual emphasis on understanding the evolutionary relationships among major lineages.

7116 Applied Pathology and Biological Control (4) Prereq.: ENMT 2001 or equivalent. 3 hr. lecture; 3 hr. lab. Practice and theory of biological control of insect pests and pests in nonagricultural settings including insect physiology, plant-pest interactions, infection processes, pathogenesis, and host responses.

7157 Introduction to Insecticide Toxicology (3) F-O Prereq.: organic chemistry or equivalent. 2 hr. lecture; 3 hr. lab. Principles of toxicology as they relate to insecticides; bioassay, risk assessment, mode of action, pharmacokinetics, insecticide resistance and selectivity.

7800 Population Ecology (3) See BIOL 7800.

7900 Entomology Extension Practicum (1-2) S Prereq.: consent of the course coordinator. This course may be taken for a max. of 2 hrs. of credit. Students will gain knowledge, training and experience in extension entomology. Emphasis on land-grant institution service, technology transfer, and initiating and evaluating an extension entomology program.

7946 Seminar: Current Topics in Molecular Evolution (1) See BIOL 7946.

7979 Tropical Biology: An Ecological Approach (1-3) See BIOL 7979.

8000 Thesis Research (1-12 per sem.) S-Y”U” grading.

8900 Independent Study (1-3) Prereq.: 6 sem. hrs. in an MA program, 6 sem. hrs. in an MA program, or consent of instructor. Independent study of individual readings guided by the graduate faculty.

9000 Dissertation Research (1-12 per sem.) S-Y”U” grading.

ENVIRONMENTAL ENGINEERING • EVEG

2000 Introduction to Environmental Engineering (3) F Prereq.: CHEM 1202 and MATH 1550. Credit will not be given for both this course and CE 2700. Basic principles of calculations in environmental engineering; overview of