I. Communicating through Writing

A. For Building Basic Skills

These are the General Education requirements (See Notes).

A. For Building Basic Skills

I. Communicating through Writing (3 courses including English 101 and 102 plus an approved writing-intensive course). Good writing skills enable students to create and share ideas, investigate and describe values, and record discoveries – all skills that are necessary not only for professional success but also for personal fulfillment in a world where communication increasingly takes place through electronic media. Students must be able to identify areas for inquiry, locate relevant information, evaluate its usefulness and quality, and incorporate the information logically and ethically. They must be able to write correctly, and they must be aware that different audiences and purposes call for different rhetorical responses.

To satisfy this requirement, students take the first-year composition sequence and, upon completion of English 101 and 102 or their equivalent (see Note 4), take one other course designated as “writing-intensive” (WC) in the undergraduate catalog. The writing-intensive courses can be within the student’s major or an elective. In order to gain a (WC) designation, courses shall require formal and informal writing assignments that total 5,000 words.

APPROVED COMMUNICATING THROUGH WRITING (WC) COURSES

AGRICULTURAL AND EXTENSION EDUCATION

440 Communication Techniques in Agriculture

ANTHROPOLOGY

210 Principles of Biological Anthropology

ANIMAL SCIENCE

280 Biotechnology and Management Practices in Animal Production

ARCHITECTURE

213 History and Theory of Contemporary Architecture

ART HISTORY

376 Seminar in Art History

BIOCHEMISTRY AND CELLULAR AND MOLECULAR BIOLOGY

409 Perspectives in Biochemistry and Cellular and Molecular Biology

CHEMICAL ENGINEERING

310 Chemical and Biomolecular Engineering Laboratory

CHEMISTRY

479 Physical Chemistry Laboratory I

CHILD AND FAMILY STUDIES

405 Development of Professional Skills

CIVIL ENGINEERING

205 Professional Development I

ELECTRICAL AND COMPUTER ENGINEERING

400 Senior Design

ENGLISH

206 Introduction to Shakespeare

254 Themes in Literature

255 Public Writing

295 Business and Technical Writing

355 Rhetoric and Writing

360 Technical and Professional Writing

363 Writing Poetry

364 Writing Fiction

398 Junior-Senior Honors Seminar

455 Persuasive Writing

499 Senior Seminar

FORESTRY

321 Wildland Recreation
II. Communicating Orally (1 course). The ability to communicate one's ideas orally is as important as the ability to express them well in writing. Students should be able to speak in an informative and/or convincing manner to other individuals and to groups, both small and large. Being able to express one's thoughts clearly has always been a critical component of good citizenship. Students should be able to locate relevant information, evaluate its usefulness and quality, and incorporate the information logically and ethically in public address. (See Note 5.) This requirement may be completed by

(1) completion of Communication Studies 210 or 240 or
(2) completion of a course with an (OC) designation.

APPROVED COMMUNICATING ORALLY (OC) COURSES

AEROSPACE ENGINEERING
410 Professional Topics

ANIMAL SCIENCE
360 Horse, Dairy, and Meat Animal Evaluation

ART DESIGN/GRAPHIC
452 Design Seminar

BIOLOGY
157 Honors Experimental Biology

BIOMEDICAL ENGINEERING
410 Professional Topics

BIOSYSTEMS ENGINEERING
401 Biosystems Engineering Design I

CHEMISTRY
406 Senior Seminar

CHILD AND FAMILY STUDIES
405 Development of Professional Skills

CIVIL ENGINEERING
205 Professional Development I

ELECTRICAL AND COMPUTER ENGINEERING
400 Senior Design

ENVIRONMENTAL AND SOIL SCIENCES
301 Professional Development

MATERIALS SCIENCE AND ENGINEERING
489 Materials Design

MECHANICAL ENGINEERING
410 Professional Topics

NUCLEAR ENGINEERING
400 Senior Seminar
III. Quantitative Reasoning (2 courses). In today’s world, arguments and claims often rely for support on scientific studies and statistical evidence. Students should possess the mathematical and quantitative skills to evaluate such evidence. Furthermore, students should possess the skills both to recognize the quantitative dimension of problems and to use mathematical reasoning to formulate and solve the problem. Finally, students need strong quantitative skills because they are indispensable in managing everyday-life situations. This requirement may be completed by either of the following.

(1) Taking two mathematics or statistics courses from the list below. (Preferably, these courses would be taken in one of the following pairings: Mathematics 113 and 115; Mathematics 123 and 125; Mathematics 147 and 148; Mathematics 151 and 152; Mathematics 125, 141 or 147 and Statistics 201 or 207; Mathematics 115 and 123 or 125 or 202.).

MATHEMATICS
113 Mathematical Reasoning
115 Statistical Reasoning
117 Honors Mathematical Reasoning
123 Finite Mathematics
125 Basic Calculus
141–142 Calculus I, II
147–148 Honors: Calculus I, II
151–152 Mathematics for the Life Sciences I, II
202 Probability, Statistics, and Euclidean Geometry

STATISTICS
201 Introduction to Statistics
207 Honors: Introduction to Statistics

or

(2) taking one mathematics course from the list above and one course designated in the undergraduate catalog as having a quantitative component (QR). The course designated as having a quantitative component may be within the student’s major or an elective.

APPROVED QUANTITATIVE REASONING (QR) COURSES

ARCHITECTURE
331 Architectural Structures I

COMPUTER SCIENCE
100 Introduction to Computers and Computing
102 Introduction to Computer Science

INTERIOR DESIGN
460 Lighting for Interior Design

MUSIC TECHNOLOGY
290 Sound Recording Techniques

B. For Developing Broadened Perspectives

I. Natural Sciences (2 courses). As science and technology come to play an increasingly important role in contemporary life, it is essential for all educated persons to have a fundamental understanding of science and its methods. All students should be familiar with one or more scientific disciplines and the role of science in contemporary society. Such familiarity may be gained through acquisition of knowledge of a discipline’s basic vocabulary, chief discoveries, and fundamental principles; exposure to a discipline’s experimental techniques; and the ability to analyze issues with scientific dimensions. This requirement is satisfied by taking two courses from the approved list. At least one of the courses must have a laboratory.

APPROVED NATURAL SCIENCES (NS) COURSES
(† NON-LAB COURSES)

ANTHROPOLOGY
110 Human Origins†
117 Honors: Human Origins†

ASTRONOMY
151 A Journey through the Solar System†
152 Stars, Galaxies, and Cosmology†
161 A Journey through the Solar System with Laboratory
162 Stars, Galaxies, and Cosmology with Laboratory
217–218 Honors: Introductory Astronomy

BIOLOGY
101–102 Humankind in the Biotic World
111–112 General Botany
130 Biodiversity
140 Organization and Function of the Cell
157 Honors Experimental Biology

CHEMISTRY
100 Principles of Chemistry
110 Introduction to Organic and Biochemistry
120–130 General Chemistry I and II
128–138 Honors: General Chemistry I and II

ENTOMOLOGY AND PLANT PATHOLOGY
201 Impact of Insects and Plant Diseases on Human Society†

FORESTRY, WILDLIFE AND FISHERIES
250 Conservation†

GEOGRAPHY
131–132 Geography of the Natural Environment I and II

GEOLOGY
101 The Dynamic Earth
102 Earth, Life, and Time
103 The Earth’s Environment
107 Honors: The Dynamic Earth
108 Honors: Earth, Life, and Time
201 Biodiversity: Past, Present, and Future†
202 Earth As An Ecosystem: Modern Problems and Solutions†
203 Geology of National Parks†
205 Age of the Dinosaurs†
207 Honors: Age of Dinosaurs†
208 Honors: Earth as an Ecosystem: Modern Problems and Solutions†

HASLAM SCHOLARS PROGRAM
288 Energy in the Modern World†

MICROBIOLOGY
210 General Microbiology
II. Arts and Humanities (2 courses). To live well in the present, one must have an acquaintance with the past, especially with the cultural achievements that are the distinctive hallmarks of all human societies. An appreciation of art, music, theater, literature, and philosophy will not only enrich the lives of students, but it will also help them understand their own and other’s aspirations, both in a historical and a contemporary context. This requirement is satisfied by taking two courses from the list below.

**APPROVED ARTS AND HUMANITIES (AH) COURSES**

<table>
<thead>
<tr>
<th>AFRICANA STUDIES</th>
<th>162</th>
<th>Art of Africa, Oceania, and Pre-Columbian America (same as Art History 162)</th>
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<tbody>
<tr>
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<td>233</td>
<td>Major Black Writers (same as English 233)</td>
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<td>225</td>
<td>Introduction to African Literature (same as English 225)</td>
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<td></td>
<td>226</td>
<td>Introduction to Caribbean Literature (Same as English 226)</td>
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<thead>
<tr>
<th>ARCHITECTURE</th>
<th>111</th>
<th>Architecture and the Built Environment</th>
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<tr>
<td></td>
<td>117</td>
<td>Honors: Architecture and the Built Environment</td>
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<td></td>
<td>211</td>
<td>History and Theory of Architecture I</td>
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<td>History and Theory of Architecture II</td>
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<td></td>
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<td>Honors: History and Theory of Architecture I</td>
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<td></td>
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<td>Honors: History and Theory of Architecture II</td>
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<thead>
<tr>
<th>ART HISTORY</th>
<th>162</th>
<th>Art of Africa, Oceania, and Pre-Columbian America (same as Africana Studies 162)</th>
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<td></td>
<td>167</td>
<td>Honors: Art of Africa, Oceania, and Pre-Columbian America</td>
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<td>172</td>
<td>Western Art I</td>
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<td>177</td>
<td>Honors: Western Art I</td>
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<td></td>
<td>178</td>
<td>Honors: Western Art II</td>
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<td></td>
<td>183</td>
<td>Asian Art</td>
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<td>187</td>
<td>Honors: Asian Art</td>
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<thead>
<tr>
<th>CLASSICS</th>
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<th>Early Greek Mythology</th>
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<td>222</td>
<td>Classical Greek and Roman Mythology</td>
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<td></td>
<td>232</td>
<td>Archaeology and Art of Ancient Greece and Rome</td>
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<td></td>
<td>253</td>
<td>Greek and Roman Literature in English Translation</td>
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</tbody>
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<tr>
<th>ENGLISH</th>
<th>201</th>
<th>British Literature I: Beowulf through Johnson</th>
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<td>202</td>
<td>British Literature II: Wordsworth to the Present</td>
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<td>Introduction to Shakespeare</td>
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<td>207</td>
<td>Honors: British Literature I</td>
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<td>221</td>
<td>World Literature I: Ancient through Early Modern</td>
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<th>MUSICOLOGY</th>
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<th>Introduction to Music in Western Culture</th>
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<td>115</td>
<td>Music in the United States</td>
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<td>120</td>
<td>History of Rock</td>
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<td>125</td>
<td>Jazz in American Culture</td>
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<td></td>
<td>210</td>
<td>History of Western Music, Ancient to the Baroque</td>
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<td></td>
<td>220</td>
<td>History of Western Music, Classical to the Present</td>
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<td></td>
<td>290</td>
<td>Soundscapes: Exploring Music in a Changing World</td>
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<tr>
<th>PHILOSOPHY</th>
<th>110</th>
<th>The Human Condition: Values and Reality</th>
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<tbody>
<tr>
<td></td>
<td>111</td>
<td>The Human Condition: Knowledge and Reality</td>
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<td>Honors: Introduction to Philosophy</td>
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<td>Honors: Introduction to Philosophy</td>
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<td>Engineering Ethics</td>
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<td>242</td>
<td>Contemporary Moral Issues</td>
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<td>Business Ethics</td>
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<td></td>
<td>244</td>
<td>Professional Responsibility (same as Religious Studies 244)</td>
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<td>245</td>
<td>Environmental Ethics</td>
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<td>Bioethics</td>
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<td></td>
<td>290</td>
<td>Social and Political Philosophy</td>
</tr>
</tbody>
</table>

| RELIGIOUS STUDIES | 244  | Professional Responsibility (same as Philosophy 244)                      |

<table>
<thead>
<tr>
<th>RUSSIAN</th>
<th>221</th>
<th>Rebels, Dreamers, and Fools: The Outcast in 19th-Century Russian Literature</th>
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<tbody>
<tr>
<td></td>
<td>222</td>
<td>Heaven or Hell: Utopias and Dystopias in 20th-Century Russian Literature</td>
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| THEATRE           | 100  | Introduction to Theatre                                                   |

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<thead>
<tr>
<th>UNIVERSITY HONORS</th>
<th>257</th>
<th>Special Topics in the Arts and Humanities</th>
</tr>
</thead>
</table>
III. Social Sciences (2 courses). The goal of the social sciences is to help us understand the way that we live, especially the relation between the individual and the group, sometimes from an historical but often from a contemporary perspective. Vital to the continued health and success of our society is an understanding of the complex individual, political, and social dynamics that make up the modern world. Students should not only have knowledge of the principal concerns of the social sciences, but they should also understand the methods by which social scientists collect and evaluate knowledge. This requirement is satisfied by taking two courses from the following list.

APPROVED SOCIAL SCIENCES (SS) COURSES

AFRICANA STUDIES
201 Introduction to African-American Studies  
202 Introduction to African-American Studies

ANTHROPOLOGY
130 Cultural Anthropology  
137 Honors: Cultural Anthropology

CHILD AND FAMILY STUDIES
210 Human Development  
220 Marriage and Family: Roles and Relationships  
(same as Women’s Studies 230)

ECONOMICS
201 Introductory Economics: A Survey Course  
207 Honors: Introductory Economics

GEOGRAPHY
101-102 World Geography

HASLAM SCHOLARS PROGRAM
268 Perspectives on Globalization

POLITICAL SCIENCE
102 Introduction to Political Science

PSYCHOLOGY
110 General Psychology  
117 Honors: General Psychology

SOCIOLOGY
110 Social Justice and Social Change  
117 Honors: Social Justice and Social Change  
120 General Sociology  
127 Honors: General Sociology

UNIVERSITY HONORS
267 Special Topics in the Social Sciences

WOMEN’S STUDIES
230 Marriage and Family: Roles and Relationships  
(same as Child and Family Studies 220)

IV. Cultures and Civilizations (2 courses). Knowledge of foreign languages and cultures and their histories have long been required of educated people. Today technologies of travel and communication create global communities, and so increase the importance of this knowledge. While it is not possible to become expert in all cultures and civilizations, a perspective on which to build knowledge over a lifetime can be gained by study of foreign languages and the study of the cultures and histories of their speakers. This perspective improves the ability of students to function effectively in the global community of the twenty-first century by developing an appreciation of linguistic, historical, and cultural diversity. This requirement is satisfied by either

(1) taking two courses from the following list  
(2) taking a two-course sequence in a foreign language at the intermediate level.

APPROVED CULTURES AND CIVILIZATIONS (CC) COURSES

AFRICANA STUDIES
235–236 Introduction to African Studies

ANTHROPOLOGY
120 Prehistoric Archaeology  
127 Honors: Prehistoric Archaeology

ASIAN STUDIES
101–102 Asian Civilization

CLASSICS
201 Introduction to Classical Civilization

ENVIRONMENTAL AND SOIL SCIENCES
120 Soils and Civilizations  
220 Waters and Civilizations

GLOBAL STUDIES
250 Introduction to Global Studies  
(same as Sociology 250)

HISTORY
241–242 Development of Western Civilization  
247–248 Honors: Development of Western Civilization  
255–256 Introduction to Latin American Studies  
(same as Latin American Studies 251–252)  
261–262 A History of World Civilization  
267–268 Honors: A History of World Civilization

LATIN AMERICAN STUDIES
251–252 Introduction to Latin American Studies  
(same as History 255–256)

MEDIEVAL STUDIES
201–202 Medieval Civilization

RELIGIOUS STUDIES
101 World Religions in History  
102 The Comparison of World Religions  
107 Honors: World Religions in History

SOCIOLOGY
250 Introduction to Global Studies  
(same as Global Studies 250)

UNIVERSITY HONORS
277 Special Topics in Cultures and Civilizations

INTERMEDIATE FOREIGN LANGUAGE SEQUENCES

ARABIC
221–222 Intermediate Modern Standard Arabic I, II  
(same as Asian Studies 221–222)

ASIAN LANGUAGES
231–232 Intermediate Chinese I, II  
(same as Chinese 231–232)  
251–252 Intermediate Japanese I, II  
(same as Japanese 251–252)

ASIAN STUDIES
221–222 Intermediate Modern Standard Arabic I, II  
(same as Arabic 221–222)

241–242 Intermediate Modern Hebrew I, II  
(same as Hebrew 241–242)

261–262 Intermediate Persian I, II  
(same as Persian 261–262)

CHINESE
231–232 Intermediate Chinese I, II  
(same as Asian Languages 231–232)
CLASSICS
251–252 Intermediate Latin I, II
261 Intermediate Greek: Grammar Review and Readings
264 Intermediate Greek: Epic Poetry

FRENCH
211–212 Intermediate French I, II
217–218 Honors: Intermediate French I, II

GERMAN
201–202 Intermediate German I, II

HEBREW
241–242 Intermediate Modern Hebrew I, II (same as Asian Studies 241–242)

ITALIAN
211–212 Intermediate Italian

JAPANESE
251–252 Intermediate Japanese I, II (same as Asian Languages 251–252)

PERSIAN
261–262 Intermediate Persian I, II (same as Asian Studies 261–262)

PORTUGUESE
211–212 Intermediate Portuguese

RUSSIAN
201–202 Intermediate Russian

SPANISH
211–212 Intermediate Spanish
217–218 Honors: Intermediate Spanish

NOTES
(1) Some courses on the various General Education course lists may have prerequisites. Students are responsible for meeting all course prerequisites.
(2) A student's college/program may require specific General Education courses.
(3) General Education courses must be taken for a letter grade (i.e., A-F) rather than Satisfactory/No Credit (unless this is the only way the course is offered).
(4) See College of Arts and Sciences Basic Skills Requirement- Communicating through Writing in the Undergraduate Catalog for information on course equivalencies for English 101 and 102.
(5) The Office of Disability Services (ODS) is committed to providing equal opportunities for students with disabilities at the University of Tennessee. Appropriate accommodations will be made to enable persons with disabilities to satisfy the General Education requirements. Students with documented disabilities should contact the Office of Disability Services for assistance with appropriate accommodations at (865) 974-6087 or ods@tennessee.edu.
(6) Subcommittees of the Undergraduate Council General Education Committee are charged with management of the courses to be included on the General Education course lists for the Basic Skills and Broadened Perspectives areas. The most current list of General Education courses is posted at http://web.utk.edu/~ugcouncl.