

2006-2007

THE UNIVERSITY OF TENNESSEE, KNOXVILLE

GENERAL EDUCATION REQUIREMENT

Statement of Purpose. General education provides the foundation for successful academic study, for lifelong learning, and for carrying out the duties of local, national, and global citizenship. By building basic skills in communication, analysis, and computation as well as by broadening students' historical and cultural perspectives, the general education curriculum helps students acquire an understanding of both self and society, and thus contributes to their personal enrichment while enrolled and after graduation.

The University of Tennessee's general education program has been designed to enable the student to move among colleges within the university or to move to another institution of higher learning. Although it will provide the students with the skills required by college study, those skills are specific neither to UT Knoxville nor to a particular major or career path.

Outcomes. The program is expected to produce the following outcomes for the students.

Building Basic Skills. Because the hallmark of the educated person is the ability to think independently, students must be trained to acquire, evaluate, and use information.

- Students must be able to acquire information by conducting independent research, both in a conventional library setting and through the use of the rapidly developing electronic technologies, including databases and internet resources.
- Students must then learn to evaluate the reliability, accuracy, and logical soundness of that information. The students will be taught to apply evaluative techniques to statistical and rhetorical presentations in arts, humanities, natural sciences, and social sciences.
- Students must be trained to use the information that they have acquired. They must write clearly, speak convincingly, and solve problems using creative approaches.

Developing Broadened Perspectives. General education should help students develop habits of self-examination in the context of the individual's relationship to family, community, society, and world. To this end, general education should also help foster a commitment to respecting the diversity of personal and cultural values.

- Students should be able to explain their own values and beliefs, as well as to understand the histories and cultures behind those values. Students should also develop a commitment to lifelong learning so that they may continue to examine the relationships between their personal perspectives and the perspectives that arise from other cultures.
- Students should strengthen their sensitivity to cultural diversity by studying the histories and traditions of other cultures, both within and outside the United States; and by understanding the dynamic nature of a multicultural world through interdisciplinary perspectives or by learning other languages.

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

Animal Science

280 Biotechnology and Management Practices in Animal Production

Architecture

213 History and Theory of Contemporary Architecture

Biochemistry and Cellular and Molecular Biology

409 Perspectives in Biochemistry and Cellular and Molecular Biology

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

Forestry, Wildlife and Fisheries

312 Principles of Silviculture

Hotel, Restaurant, and Tourism

390 Professional Development (*same as Retail and Consumer Sciences 390*)

Industrial Engineering

350 Junior Seminar

Information Sciences

450 Writing About Science and Medicine (*same as Journalism and Electronic Media 450*)

Journalism and Electronic Media
200 Introduction to News Writing
201 Writing for Mass Media
414 Magazine and Feature Writing
444 Journalism as Literature
450 Writing About Science and Medicine (*same as Information Sciences 450*)
451 Environmental Writing
456 Science Writing as Literature

Judaic Studies
322 Medieval Philosophy (*same as Medieval Studies 322 and Philosophy 322*)

Materials Science and Engineering
405 Structural Characterization of Materials

Medieval Studies
322 Medieval Philosophy (*same as Judaic Studies 322 and Philosophy 322*)

Music Education
430 Music Methods for High School

Musicology
210 History of Western Music, Ancient to Baroque
330 Women in Music (*same as Women's Studies 330*)
380 Music in World Cultures

Nuclear Engineering
304 Nuclear and Radiological Engineering Laboratory I
403 Nuclear and Radiological Engineering Laboratory II

Nursing
403 Health Promotion and Maintenance in Child-bearing Families

Nutrition
412 Food and Nutrition in the Community

Philosophy
241 Engineering Ethics
243 Business Ethics
246 Bioethics (*same as Religious Studies 246*)
290 Social and Political Philosophy
320 Ancient Western Philosophy
322 Medieval Philosophy (*same as Medieval Studies 322 and Judaic Studies 322*)
324 17th- and 18th-Century Philosophy
326 19th- and 20th-Century Philosophy
340 Ethics
382 Philosophy of Feminism (*same as Women's Studies 382*)
390 Philosophical Foundations of Democracy

Plant Sciences
448 Horticultural Internet Technology

Religious Studies
246 Bioethics (*same as Philosophy 246*)

Retail and Consumer Sciences
390 Professional Development (*same as Hotel, Restaurant, and Tourism 390*)

Russian
221 Rebels, Dreamers, and Fools: The Outcast in 19th-Century Russian Literature

Social Work
314 Human Behavior and the Social Environment

Theatre
300 Play Analysis

University Honors
257 Special Topics in the Arts and Humanities
267 Special Topics in the Social Sciences
277 Special Topics in Cultures and Civilizations

Women's Studies
330 Women in Music (*same as Musicology 330*)
382 Philosophy of Feminism (*same as Philosophy 382*)

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 Development

Animal Science
360 Horse, Dairy, and Meat Animal Evaluation

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

Legal Studies
244 Professional Responsibility (*same as Philosophy 244 and Religious Studies 244*)

Mechanical Engineering
410 Professional Development

Nuclear Engineering
400 Senior Seminar

Nursing
341 Transcultural Nursing
454 Professional Leadership Issues

Philosophy
242 Contemporary Moral Issues
244 Professional Responsibility (*same as Legal Studies 244 and Religious Studies 244*)

Religious Studies
244 Professional Responsibility (*same as Legal Studies 244 and Philosophy 244*)

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 141 and 142; 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

University Honors

- 187 Quantitative Reasoning Honors Seminar

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†

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†

Microbiology

- 210 General Microbiology

Nutrition

- 100 Introductory Nutrition†

Physics

- 101–102 How Things Work I and II†
- 135–136 Introduction to Physics for Physical Science and Mathematics Majors I and II
- 137–138 Honors: Fundamentals of Physics for Physics Majors I and II
- 161 Elements of Physics for Architects and Interior Design Students†
- 221–222 Elements of Physics
- 231 Fundamentals of Physics: Electricity and Magnetism
- 232 Fundamentals of Physics: Wave Motion, Optics, and Modern Physics

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

Africana Studies

- 162 Art of Africa, Oceania, and Pre-Columbian America (*same as Art History 162*)
- 233 Major Black Writers (*same as English 233*)

Architecture

- 111 Architecture and the Built Environment
- 211 History and Theory of Architecture I
- 212 History and Theory of Architecture II

Art History

- 162 Art of Africa, Oceania, and Pre-Columbian America (*same as Africana Studies 162*)
- 167 Honors: Art of Africa, Oceania, and Pre-Columbian America
- 172 Western Art I
- 173 Western Art II
- 177 Honors: Western Art I
- 178 Honors: Western Art II
- 183 Asian Art
- 187 Honors: Asian Art

Classics

- 221 Early Greek Mythology
- 222 Classical Greek and Roman Mythology
- 232 Archaeology and Art of Ancient Greece and Rome
- 253 Greek and Roman Literature in English Translation

English

- 201 British Literature I: Beowulf through Johnson
- 202 British Literature II: Wordsworth to the Present
- 206 Introduction to Shakespeare
- 207 Honors: British Literature I
- 208 Honors: British Literature II
- 221 Literature of the Western World I: Ancient, Medieval, and Renaissance
- 222 Literature of the Western World II: Enlightenment, Romantic, and Modern
- 231 American Literature I: Colonial Era to the Civil War
- 232 American Literature II: Civil War to Present
- 233 Major Black Writers (*same as Africana Studies 233*)
- 237 Honors: American Literature I: Colonial Era to the Civil War
- 238 Honors: American Literature II: Civil War to Present
- 251 Introduction to Poetry
- 252 Introduction to Drama
- 253 Introduction to Fiction
- 254 Themes in Literature

Legal Studies

- 244 Professional Responsibility (*same as Philosophy 244 and Religious Studies 244*)

Musicology

- 110 Introduction to Music in Western Culture
- 115 Music in the United States
- 120 History of Rock
- 125 Jazz in American Culture
- 210 History of Western Music, Ancient to the Baroque
- 220 History of Western Music, Classical to the Present
- 290 Soundscapes: Exploring Music in a Changing World

Philosophy

- 110 The Human Condition: Values and Reality
- 111 The Human Condition: Knowledge and Reality
- 117 Honors: Introduction to Philosophy

- 118 Honors: Introduction to Philosophy
- 241 Engineering Ethics
- 242 Contemporary Moral Issues
- 243 Business Ethics
- 244 Professional Responsibility (*same as Legal Studies 244 and Religious Studies 244*)
- 245 Environmental Ethics
- 246 Bioethics (*same as Religious Studies 246*)
- 290 Social and Political Philosophy

Religious Studies

- 244 Professional Responsibility (*same as Legal Studies 244 and Philosophy 244*)
- 246 Bioethics (*same as Philosophy 246*)

Russian

- 221 Rebels, Dreamers, and Fools: The Outcast in 19th-Century Russian Literature
- 222 Heaven or Hell: Utopias and Dystopias in 20th-Century Russian Literature

Theatre

- 100 Introduction to Theatre

University Honors

- 157 Arts and Humanities Honors Seminar
- 257 Special Topics in the Arts and Humanities

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

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

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

- 167 Social Science Honors Seminar
- 267 Special Topics in the Social Sciences

Women's Studies

- 230 Marriage and Family: Roles and Relationships (*same as Child and Family Studies 220*)

