LATIN

201*.	Latin Prose	
	Fall. 4(4-1)	

P: LTN 102 or designated score on Latin Placement test. R: LTN 102 or placement Intermediate-level Latin prose based on readings of such authors as Sallust, Livy, and Cicero. QP: LTN 103 QA: LTN 201 LTN 202

202\*.

Latin Poetry Spring. 4(4-1) P: LTN 201. R: LTN 201 or placement Intermediate-level Latin poetry of the Republic and Augustan periods. QP: LTN 201 QA: LTN 203 LTN 203L

2004 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: LTN 299

# 301\*. **Republican Prose and Poetry** Fall of even-numbered years. 3(3-0) P: LTN 202. R: LTN 202 or placement Cicero, Caesar, Sallust, Plautus, Terence, Catullus,

and Lucretius. QP: LTN 203 QA: LTN 300

#### 302\*. **Augustan Poetry**

Spring of odd-numbered years. 3(3-0) P: LTN 202. Poetry of Augustan Rome. Virgil, Horace, Propertius, Tibullus, and Ovid. QP: LTN 203

QA: LTN 300

### 401\*. Augustan and Early Imperial Prose

Fall of odd-numbered years. 3(3-0) P: LTN 301 or LTN 302.

Augustan and Early Imperial prose writers. Livy, Augustus, Tacitus, Petronius, Suetonius, and others. QP: LTN 300 QA: LTN 490

#### 402\*. Imperial Poetry

Spring of even-numbered years. 3(3-0) P: LTN 301 or LTN 302. Poets of the Empire: Lucan, Seneca, Persius, Juvenal,

Silius Italicus, Statius, and others. QP: LTN 300 QA: LTN 490

#### 490\*. Independent Study

Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 4 credits.

LIN

R: Approval of the Department Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings. QA: LTN 499

499\*. Senior Thesis Fall, Spring. 3(-) P: LTN 402. R: Approval of department. Senior thesis under the direction of a faculty member. QP: LTN 490

# LINGUISTICS

200\*. Language and Linguistics Fall, Spring. 3(3-0) R: Not open to students with credit in LIN

401 Introductory survey especially for students in areas other than linguistics; emphasizes linguistic concepts related to students' experiences; applications of linguistics to various disciplines. QA: LIN 200

Language in Society Fall, Spring. 3(3-0) R: Not open to students with credit in LIN 271\*.

471.

Sociolinguistic values of languages and their varieties. Origin, status and function of language varieties in social settings. Factors influencing language change and maintenance in individuals and social groups. QA: LIN 280

401\*. Introduction to Linguistics Fall, Spring. 4(4-0)

The scientific study of human languages. Basic goals, concepts, methods, and research results of modern theoretical and applied linguistics with examples from a variety of languages. QA: LIN 401

Origin and development of linguistic studies from ancient Greece to the present. Foundation for the understanding of contemporary issues in linguistics and in society. QP: LIN 200 LIN 401

QA: LIN 408

424\*. Phonology

Fall, Spring. 3(3-0) P: LIN 200 or LIN 401.

Sounds and sound systems: articulatory phonetics, phonetic features and components, classical phonemics, and phonology in contemporary linguistic theories. QP: LIN 200 ORLIN 401

QA: LIN 402

### 431\*. Morphological and Syntactic Phenomena

Spring. 4(4-0) P: LIN 424 or concurrently

Essential phenomena of morphology and syntax in the languages of the world, including formal methods for their description. Structure of words in terms of morphemes; structure of phrases, clauses, and sen-tences; and relations between words QP: LIN 200 LIN 401LIN 402 QA: LIN 403 LIN 404

434\*. Syntax

Fall. 3(3-0) P: LIN 401.

Structure of sentences and structural relations among sentences. Methods of syntactic analysis and argumentation

QP: LIN 200 ORLIN 401 QA: LIN 431

## 437\*. Semantics and Pragmatics Spring. 3(3-0) P: LIN 200 or LIN 401 or approval of

department

Important semantic properties and relations. Entail-ment, ambiguity, theories of word meaning, sentence meaning and logical form. Topics in pragmatics, such as presupposition, conversational implicature, speech acts.

QP: LIN 200 LIN 401 OA: LIN 435

### 441\*. **Historical Linguistics** Spring. 3(3-0) P: LIN 431 or concurrently

Types of linguistic change and the methods used by linguists to study the historical development of languages and language families. QP: LIN 403 QA: LIN 471 LIN 404

### 450\*. Child Language Acquisition

Spring. 3(3.0) P: LIN 200 or LIN 401. R: Not open to students with credit in LIN 404. Linguistic issues, perspectives and research on the acquisition of language by children. Phonology, lexi-con, morphology, syntax, semantics. Universal principles, variation, contexts. Implications for related disciplines.

QP: LIN 200 ORLIN 401 QA: LIN 404

# Sociolinguistics Fall. 3(3-0) P: LIN 200 or LIN 401 471\*.

Linguistic and social psychological bases for language choice. Accounts of language variation and related larger constructs such as speech community, commu-*QP: LIN 200 LIN 401 QA: LIN 415* 

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.

491\*. Special Topics

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.

499\*. Senior Thesis Research(W) Fall, Spring, Summer. 2(-) 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. QA: LIN 490

490\*.

### 813\*. Foundations of American Structuralism

Fall of even-numbered years. 3(3-0) P: LIN 431

Critical reading of basic texts in linguistics from 1900 to the 1960s with primary emphasis on American structuralism and its major offshoots. QP: LIN 403 LIN 404 QA: LIN 808

## 815\*. Stratificational Linguistics Fall of odd-numbered years. 3(3-0) P: LIN 431

The theory of language developed by Sydney M. Lamb and its application to grammatical, semological, and phonological phenomena. The relation of stratificational theory to other views of language. QP: LIN 403 404 QA: LIN 821 LIN 831

### 824 . **Issues in Phonology**

Fall. 3(3-0) P: LIN 424

Findings, theories, current issues and research in the phonological analysis and argumentation. *QP: LIN 402 QA: LIN 821* 

## 834\*. Issues in Syntax Fall. 3(3-0) P: LIN 434

Findings, theories, current issues and research in the study of the structure of sentences and structural relations among sentences. Methods of syntactic analysis and argumentation. OP: LIN 431 OA: LIN 8 QA: LIN 831

#### 837\*. **Advanced Studies in Semantics**

and Pragmatics Fall of even-numbered years. 3(3-0) May reenroll for a maximum of 6 credits.

P: LIN 437 R: For reenrollment, approval of department.

Research on selected topics in semantics and/or pragmatics, such as noun phrase interpretation, tense and aspect, conversational implicature, negation. Ad-vanced level analytical techniques. QP: LIN 435 QA: LIN 835

History of Linguistics Fall. 3(3-0) P: LIN 200 or LIN 401 411%.

# LINGUISTICS

850\* Advanced Studies in Child Language Acquisition Spring of even-numbered years. 3(3-0)

May reenroll for a maximum of 6 credits. P: LIN 450 R: For reenrollment-approval

of department Selected topics on children's native language acquisi-

tion. Research methods, crosslinguistic data, explana-tions from linguistic theory. Representative topics: learnability, parameters, innateness, narratives, individual variation, bilingualism *QP: LIN 410 QA: LIN 810* 

861\*. Advanced Studies in Second Language Acquisition Spring. 3(3-0) May reenroll for a maximum of 6 credits. Interdepartmental with the Department(s) of English. P: ENG/LIN 461 or permission of department

Research, current issues and theories of second and foreign language acquisition. Role of aspects of language structure personality and general cognition. Methods of research. QP: LIN 401 QA: LIN 861

871\*. Advanced Studies in Advancea Studies in Sociolinguistics Spring. 3(3-0) May reenroll for a maximum of 6 credits. P: LIN 401

Linguistic and social-psychological bases for language choice. Topics and approaches exemplifying modern general sociolinguistic including concerns of power, politeness and gender, quantitative microsocio-linguistics and ethnomethodology. QP: LIN 415 QA: LIN 815

Independent Study Fall, Spring, Summer. 1 to 4 credits. May recenroll for a maximum of 8 890\*. credits.

R: Approval of the Department Special projects, directed reading, and research ar-ranged by an individual graduate student and a faculty member in areas supplementing regular course offerings. QA: LIN 860

891\*. Special Topics 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 for graduate students.

Seminar in Linguistics Spring. 3(3-0) May reenroll for a maximum of 12 credits. 892\*. R: linguistics approval of department

Presentation and discussion of original research by the instructor, students and others. QA: LIN 880

Master's Research-Plan B Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 3 898\*. credits.

R: Approval of the Department Directed research in support of plan B master's degree requirements.

899\*. Master's Thesis Research--Plan A Fall, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 6 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: LIN 899

### 999\* **Doctoral Dissertation Research** Fall, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 36 credits. R. Approval of the Department

QA: LIN 999

# LYMAN BRIGGS SCHOOL LBS

### 117\*. **College Algebra and Trigonometry** Fall. 3(3-0)

R: Open only to Lyman Briggs School majors. Designated score on mathematics placement test. Not open to students with credit in MTH 110 or MTH 116 or MTH 120.

Rational and real numbers. Functions and inverses. Equations, simultaneous equations. Inequalities. Graphing. Trigonometry. QP: NONE QA: LBS 111 MTH 111

#### 118\*. Calculus I

Fall, Spring. 5(5-0) P: LBS 117 or MTH 110 or MTH 116 or designated score on mathematics place <F R: Open only to Lyman Briggs School majors. Not open to students with credit in MTH 120 or MTH 124 or MTH 132 or MTH 152H.

 or M1H 132 or M1H 132H.

 Limits, continuity, differentiation, integration, and elementary applications.

 QP: LBS 111 MTH 109MTH 111

 QA: LBS

 112 MTH 112 LBS 113 MTH 113

119\*. Calculus II

Fall, Spring. 4(4-0) P: LBS 118. R: Open only to Lyman Briggs School majors. Not open to students with credit in MTH 133 or MTH 153H or MTH 235.

Continuation of LBS 118. Further applications of one variable calculus. Infinite series. Ordinary differential equations. QP: LBS 113 MTH 113 113 LBS 217 MTH 215 QA: LBS 113 MTH

### 125\*. Introduction to C Language with Applications

Spring, 3(3-0) P: LBS 118, R: Open only to Lyman Briggs School majors. Not open to students with credit in CPS 130 or CPS 131 or CPS 230. Computer programming using the C language and the UNIX operating system. Emphasis on scientific and mathematical applications. OP: MTH 112 ORLBS 112

126\*. Personal Computers and Networks Fall, Spring. 3(3-0) R: Open only to Lyman Briggs School majors. Not open to students with credit in CPS 100. selecting, installing and using personal computer software and hardware. Computer networks.

### 127\*. Introduction to FORTRAN Language with Applications Fall. 3(3-0) P: LBS 118. R: Open only to Lyman

Briggs School majors. Not open to students with credit in CPS 131.

Computer programming using the FORTRAN lan-guage and the UNIX operating system with emphasis on scientific and mathematical applications.

133\*. Introduction to Science and **Technology** Studies Fall, Spring. 4(4-0) R: Open only to Lyman Briggs School

majors. Instruction and practice in expository writing. Paper and report topics drawn from readings in the history, philosophy, and other areas of science and technology. QA: LBS 131 LBS 232 144\*. **Biology I: Organismal Biology** 

Fall, Spring. 4(3-3) R: Open only to Lyman Briggs School majors. Not open to students with credit in BS 110. Modern biology at the organismal level of integration. Principles of genetics, evolution, ecology, and organis-mal diversity as interactive units. QA: LBS 140 BS 212

## Biology II: Cellular and Molecular Biology 145\*.

Fall, Spring. 4(3-3) P: LBS 144; CEM 141 or CEM 151 or CEM 181H or LBS 165. R: Open only to Lyman Briggs School majors. Not open to students with credit in BS

Modern biology mainly at the cellular level of integration. Principles of cell structure and function are used to explain processes of bioenergetics, protein synthe-

sis, and development. QP: LBS 140 QA BS 211 QA: LBS 141 LBS 242 BS 210

# 164\*. Introduction to Physics and Chemistry I Fall. 3(4-0) P: LBS 117 or concurrently or MTH 116.

R: Open only to Lyman Briggs School majors. Not open to students with credit in PHY 181B or PHY 183 or PHY 183B or PHY 231 or PHY 231B. Basic physics principles, problem solution techniques. Mechanical systems, elementary thermodynamics, vibrations and waves. Atoms and nuclei. QP: MTH 109 MTH 111LBS 111 QA: LBS 162 LBS 261 PHY 237 PHY 281

### Introductory Physics Laboratory I 164L\*. Fall. 1(0-3) P:LBS 164 or concurrently. R: Open only

to Lyman Briggs School majors. Not open to students with credit in PHY 192 or PHY 251.

Techniques and instruments in the physics laboratory. Selected experiments in classical and modern physics. QA: LBS 162L LBS 261L PHY 257 PHY 259 PHY 297

#### 165\*. Introduction to Chemistry and **Physics** I

Spring. 3(4-0) P: LBS 164. R: Open only to Lyman Briggs School majors. Not open to students with credit in CEM 141 or CEM 152 or CEM 182H. Chemical principles: structure and bonding, periodic properties. Stoichiometry, states of matter. Solutions, acids and bases, equilibria. Thermodynamics, kinetics. QA: LBS 161 LBS 163 CEM 141 CEM 151 CEM 152

### 165L\*. Introductory Chemistry Laboratory

Spring. 1(0-3) P: LBS 165 or concurrently. R: Open only to Lyman Briggs School majors. Not open to students with credit in CEM 161 or CEM 185H. Determination of density and molecular weight. Stoichiometry. Acid-base titration, redox titration. Reaction kinetics, thermochemistry, Beer's law, freezing point depression, and equilibrium constants. QA: LBS 161L LBS 163L CEM 161

Calculus III

220\*.

Fall, Spring. 5(5-0) P: LBS 119. R: Open only to Lyman Briggs School majors. Not open to students with credit in MTH 234 or MTH 235 or MTH 254H or MTH 255H.

Continuation of LBS 119. Three-dimensional vector geometry, differential calculus of functions of two or three variables. Double and triple integrals, line

integrals. QP: LBS 113 MTH 113 217 MTH 214 MTH215 QA: LBS 216 LBS