Psychology

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Psychology involves the systematic study of human behavior and the mental and physiological processes that underlie it. Each course seeks to integrate psychological data with major biblical beliefs. The aim of the department is to train Christian psychology students who upon graduation are prepared for further academic studies or professional responsibilities.

The Bachelor of Arts degree requires proficiency of two years of one foreign language. The Bachelor of Science degree must be combined with curriculum requirements in systems analysis. Psychology may also be selected as a concentration in the Social Studies Education major; for detailed curriculum, refer to Social Studies Education on page 103.

Pre-Art Therapy (BA or BS)

Pre-Art Therapy is an interdisciplinary major offered jointly by the Psychology Department and the Art, Film, and Media Department. For program details, refer to Pre-Art Therapy on page 68.

Psychology (BA)

The Bachelor of Arts degree with a major in Psychology requires two years of one foreign language and 44 major hours. All major courses must be completed with a grade of C- or better and are included in the major GPA.

<table>
<thead>
<tr>
<th>Major Requirements</th>
<th></th>
<th>Select one biological course from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100 3</td>
<td></td>
<td>PSY 341 3 Neuroscience and the Soul</td>
</tr>
<tr>
<td>PSY 105 3</td>
<td></td>
<td>PSY 395 3 Health Psychology</td>
</tr>
<tr>
<td>PSY 272 4</td>
<td></td>
<td>PSY 441 3 Physiological Psychology</td>
</tr>
<tr>
<td>PSY 325 1</td>
<td></td>
<td>Select one cognition or learning course from the following:</td>
</tr>
<tr>
<td>PSY 495 3</td>
<td></td>
<td>PSY 410 3 Motivation</td>
</tr>
<tr>
<td>Select one developmental course from the following:</td>
<td></td>
<td>PSY 411 3 Learning; Theory and Application</td>
</tr>
<tr>
<td>PSY 240 3</td>
<td></td>
<td>PSY 420 3 Cognition</td>
</tr>
<tr>
<td>PSY 250 3</td>
<td></td>
<td>Select two sociocultural courses from the following:</td>
</tr>
<tr>
<td>PSY 340 3</td>
<td></td>
<td>PSY 320 3 Multicultural Psychology</td>
</tr>
<tr>
<td>PSY 350 3</td>
<td></td>
<td>PSY 321 3 Social Psychology</td>
</tr>
<tr>
<td>Select one personal course from the following:</td>
<td></td>
<td>PSY 357 3 Peace, Reconciliation, and Justice</td>
</tr>
<tr>
<td>PSY 300 3</td>
<td></td>
<td>Select 2 credit hours from the following:</td>
</tr>
<tr>
<td>PSY 305 3</td>
<td></td>
<td>PSY 345 3 Applied Research Lab</td>
</tr>
<tr>
<td>PSY 400 3</td>
<td></td>
<td>PSY 393 3 Practicum</td>
</tr>
<tr>
<td>PSY 461 3</td>
<td></td>
<td>PSY 450 3 Directed Research</td>
</tr>
<tr>
<td>Select one course from the following:</td>
<td></td>
<td>Electives</td>
</tr>
<tr>
<td>PSY 310 3</td>
<td></td>
<td>Select three psychology courses totaling at least 2 hours</td>
</tr>
<tr>
<td>PSY 312 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 314 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Psychology/Pre-Medicine Concentration (BA)

The Bachelor of Arts degree with a major in Psychology/Pre-Medicine concentration consists of two years of one foreign language and 92-94 major hours including the 44-hour major requirements listed above and the following 48-50 hours of Pre-Medicine concentration requirements. All major courses, including those in the concentration, must be completed with a grade of C- or better and are included in the major GPA.

<table>
<thead>
<tr>
<th>Concentration Requirements</th>
<th></th>
<th>Math Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology Courses</td>
<td></td>
<td>MAT 230 4 Calculus II</td>
</tr>
<tr>
<td>BIO 201 4</td>
<td></td>
<td>Select one option from the following:</td>
</tr>
<tr>
<td>BIO 203 4</td>
<td></td>
<td>MAT 151 4 Calculus I</td>
</tr>
<tr>
<td>BIO 312 4</td>
<td></td>
<td>MAT 145 3 Introduction to Functions and Calculus and</td>
</tr>
<tr>
<td>Select one course from the following:</td>
<td></td>
<td>MAT 146 3 Functions and Calculus</td>
</tr>
<tr>
<td>BIO 33T 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 452 4</td>
<td></td>
<td>1MAT 145 &amp; 146 count as one option.</td>
</tr>
<tr>
<td>Chemistry Courses</td>
<td></td>
<td>Physics Courses</td>
</tr>
<tr>
<td>CHE 211 4</td>
<td></td>
<td>PHY 203 4 General Physics I</td>
</tr>
<tr>
<td>CHE 212 4</td>
<td></td>
<td>PHY 204 4 General Physics II</td>
</tr>
<tr>
<td>CHE 311 4</td>
<td></td>
<td>Psychology Course (strongly recommended)</td>
</tr>
<tr>
<td>CHE 312 4</td>
<td></td>
<td>PSY 330 3 Applied Psychological Statistics</td>
</tr>
</tbody>
</table>
Psychology/Systems (BS)

The Bachelor of Science degree with a major in Psychology/Systems consists of the 44-hour major and curriculum requirements in systems analysis. All major courses, including systems curriculum courses, must be completed with a grade of C- or better and are included in the major GPA.

Systems Curriculum Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 151</td>
<td>4</td>
<td>Calculus I</td>
</tr>
<tr>
<td>SYS 101</td>
<td>3</td>
<td>Introduction to Systems</td>
</tr>
<tr>
<td>SYS 120</td>
<td>4</td>
<td>Introduction to Problem Solving</td>
</tr>
<tr>
<td>SYS 330</td>
<td>3</td>
<td>Human Relations in Organizations</td>
</tr>
<tr>
<td>SYS 390</td>
<td>3</td>
<td>Information Systems Analysis</td>
</tr>
<tr>
<td>SYS 392</td>
<td>1</td>
<td>Systems Seminar</td>
</tr>
<tr>
<td>SYS 394</td>
<td>3</td>
<td>Information Systems Design</td>
</tr>
<tr>
<td>SYS 403</td>
<td>3</td>
<td>Operations Management</td>
</tr>
</tbody>
</table>

Select one course from the following:

- COS 121: 4 Foundations of Computer Science
- COS 143: 3 Interactive Webpage Design

Select one course from the following:

- MAT 210: 4 Introductory Statistics
- MAT 352: 4 Mathematical Statistics

Select one course from the following:

- SYS 401*: 3 Operations Research
- SYS 402*: 3 Modeling and Simulation

Select one course from the following:

- PSY 393: 3-4 Practicum
- SYS 393: 3-4 Practicum

Systems Electives

Select at least 3 hours of electives, in addition to those required in the major or systems:

- ENT 422: 3 New Venture Planning
- MAT 382: 3 Advanced Statistical Methods
- MGT 201: 3 Introduction to Business
- SYS 214: 3 Principles of Human Computer Interaction
- SYS 310: 3 E-Commerce
- SYS 401*: 3 Operations Research
- SYS 402*: 3 Modeling and Simulation

*Courses in both areas may count only once.

Psychology Minor

A minor in Psychology requires 18 hours. All minor courses must be completed with a grade of C- or better and are included in the minor GPA.

Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100</td>
<td>3</td>
<td>Introductory Psychology</td>
</tr>
</tbody>
</table>

Electives

Select an additional 15 hours of psychology electives.

*Only one developmental class may be taken for the minor (PSY 240, 250, 340, or 350).

Psychology Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100</td>
<td>3</td>
<td>Introductory Psychology</td>
</tr>
<tr>
<td>PSY 105</td>
<td>3</td>
<td>Foundations and Applications of Psychology</td>
</tr>
<tr>
<td>PSY 125</td>
<td>2</td>
<td>Intrapersonal Psychology</td>
</tr>
<tr>
<td>PSY 170</td>
<td>1-4</td>
<td>Selected Topics</td>
</tr>
<tr>
<td>PSY 210</td>
<td>2</td>
<td>Ethics in Psychology</td>
</tr>
<tr>
<td>PSY 220</td>
<td>3</td>
<td>Sport Psychology</td>
</tr>
<tr>
<td>PSY 240</td>
<td>3</td>
<td>Child Psychology</td>
</tr>
<tr>
<td>PSY 250</td>
<td>3</td>
<td>Life Span Development</td>
</tr>
<tr>
<td>PSY 251</td>
<td>1</td>
<td>Life Span Development: Adolescence, Adulthood, and Aging</td>
</tr>
</tbody>
</table>

PSY 100: An introduction to the subject matter and methods of psychology. Topics on human development, personality, learning, sensation, perception, motivation, emotion, mental health and social psychology are considered. Meets foundational core general social science requirement.

PSY 105: An exploration of worldviews and philosophical views in psychology, current perspectives and ethical issues in psychology, and models of integration of psychology and Christianity. Self-reflection and development of a sense of calling/vocation in psychology are explored as the breadth and depth of the field are introduced. Does not meet a foundational core requirement. Prerequisite: PSY 100 or instructor's permission.

PSY 125: The study of how to process the emotional dynamics of anger, guilt, anxiety and grief while becoming mature, emotionally integrated social beings.

PSY 170: Selected Topics

PSY 210: Ethics in Psychology

PSY 220: Sport Psychology

PSY 240: Child Psychology

PSY 250: Life Span Development

PSY 251: Life Span Development: Adolescence, Adulthood, and Aging
PSY 260 3 hours
Applied Psychology
An introduction to practical uses and applications of psychology. Topics cover a variety of fields of psychology (e.g., industrial/organizational psychology, educational psychology, clinical/counseling psychology) and applications within each field with different psychological degrees, developing a career identity that intersects with values and beliefs.

PSY 270 1-4 hours
Selected Topics
A course offered on a subject of interest but not listed as a regular course offering.

PSY 272 4 hours
Introduction to Research Methods and Data Analysis
Research methods in psychology are studied and critiqued. Students are involved in practical research and writing assignments. Students will also cover an introduction to basic statistical procedures and tests. Prerequisites: PSY 100 and 105.

PSY 300 3 hours
Abnormal Psychology
A study of the nature, causes, and treatment of maladaptive behavior, with special consideration given to the symptoms and dynamics of psychological disorders. Prerequisites: PSY 100 and 105 or instructor’s permission.

PSY 305 3 hours
Behavioral Problems of Children and Adolescents
A study of major behavioral disorders, with emphasis on empirical research and clinical description, relative to etiology, assessment, prognosis, and treatment. Cultural influences on child and adolescent behavioral disorders will also be explored. Prerequisite: PSY 240 or PSY 250 or PSY 350.

PSY 315 3 hours
Working with Orphans and Vulnerable Children
This course provides a basic introduction to the study of orphans and vulnerable children (OVC). Significant attention will be given to researching effective programs and interventions that work with this population. A developmental framework will be used to understand and analyze programs and needs. Meets foundational core civic engagement or general social science requirement. Prerequisite: PSY 240 or PSY 250 or PSY 350.

PSY 320 3 hours
Multicultural Psychology
An introduction to the psychological development of differences in worldviews; cultural identity development; discrimination & racism; acculturation processes, and building multicultural skills and competence. The course provides students an opportunity to begin to build knowledge, skill, and awareness in serving, working, and/or being with individuals of different ethnic and cultural groups from a psychological and Christian worldview. The goal of this course is to facilitate self-reflection and self-growth among participants, preparing them to more critically, actively, and effectively participate in a diverse environment. Prerequisites: PSY 100, 105, and 272 or instructor’s permission.

PSY 321 3 hours
Social Psychology
A study of how the thought, feeling, or behavior of individuals is influenced by the actual, imagined, or implied presence of others. Topics include social perception, conformity prejudice, aggression, attitudes and their change, affiliation, and altruism. Prerequisites: PSY 100, 105, and 272 or instructor’s permission.

PSY 325 1 hour
Career and Vocational Issues Seminar
A career and vocational seminar with an emphasis on reading and discussion. Prerequisites: PSY 100, 105, and 272; junior standing required.

PSY 330 3 hours
Applied Psychological Statistics
Introductory course that surveys common statistical concepts in psychological research. It also examines and critiques the major research designs used in psychology today. Prerequisites: PSY 100, 105, and 272.

PSY 331 3 hours
Biblical Psychology
A survey of biblical teaching on the nature of the person, its relationship to emotional and behavioral problems, and solutions to those problems. Meets foundational core general social science requirement.

PSY 341 3 hours
Neuroscience and the Soul
This course is a study of the human brain and the question of the existence of a soul or immaterial mind. Content to be studied will include areas of the brain related to this question of the existence of the soul. The course will study leading researchers in neuroscience as well as key experiments examining the issue. Parallel to this search on neuroscience, the class will also examine some philosophy, theology, and the biblical content in order to keep the larger question of the immortal soul in view.

PSY 345 3 hours
Applied Research
This lab experience allows students to apply their research and statistical skills on meaningful service learning projects. Prerequisite: PSY 272; Prerequisite or Corequisite: PSY 330.

PSY 350 3 hours
Child and Adolescent Psychology
This course surveys the characteristics of growth and development of children through adolescence, including physical, psychological, social, cognitive, and emotional aspects. School-related contemporary issues such as child abuse, drug and alcohol use, peer pressure, and teenage sexuality are discussed. Meets foundational core general social science requirement.

PSY 357 3 hours
Peace, Reconciliation, and Justice
This course provides a basic introduction to the role of psychology in helping to establish peaceful societies around the world. It will seek to integrate a Christian worldview with current trends in peacemaking, including topics such as forgiveness, reconciliation, and social justice. Attention will be given to ethnopolitical conflicts from a multidisciplinary perspective. Prerequisites: PSY 100, 105, and 272 or instructor’s permission.

PSY 360 1-4 hours
Independent Study
An individualized, directed study involving a specified topic.

PSY 370 1-4 hours
Selected Topics
A course offered on a subject of interest but not listed as a regular course offering.

PSY 390 3 hours
Christian Marriage
A practical and applied course that integrates psychological literature and biblical teaching in the subject areas of the marriage relationship. These areas include marriage foundations, dating and engagement, premarital sexual behavior, singleness, mate selection, marriage success and satisfaction, love and infatuation, marriage roles, communication and conflict and divorce.

PSY 393 1-4 hours
Practicum
Supervised learning involving a first-hand field experience or a project. Generally, one hour of credit is awarded for a minimum of 40 hours of practicum experience. Offered primarily during summer.

PSY 395 3 hours
Health Psychology
This course provides an overview of the research and practice of psychology as applied to health and health systems. Topics include the biopsychosocial model, personality and psychological issues related to health behaviors, stress and coping, patient-provider relationships, use of health services, pain management, chronic illness, advancing and terminal illness, heart disease, hypertension, stroke, diabetes, psyscneuroimmunology, aids, cancer and arthritis. Students also explore psychological issues related to personal health behavior change.

PSY 400 3 hours
Theories of Personality
A study of the major current systematic psychological theories of personality. Consideration is given to their underlying assumptions and usefulness for research and therapeutic practice. Prerequisites: PSY 100 and three additional hours in psychology or social work.

PSY 410 3 hours
Motivation
This course is designed to provide a theoretical, Christian, practical understanding of motivation. Motivation is addressed by looking at its historical development and models of violence, affection, intellect, and biology. Prerequisites: PSY 100 and six additional hours in psychology or instructor’s permission.

PSY 411 3 hours
Learning: Theory and Application
The study of major learning theories and their application to advertising, education, counseling, and daily problems of life. Prerequisite: PSY 100 and 105.
PSY 420 3 hours
Cognition
The scientific study of the cognitive functions of memory, attention, perception, learning styles, imagery, decision making, problem solving, and metacognition, with application for implementing this information. Prerequisites: PSY 100, 105, and six additional hours in psychology.

PSY 422 3 hours
Psychological Testing
A study of the principles of psychological testing, considering both the theoretical and practical foundations underlying the construction, use, and interpretation of various psychometric instruments. The student is given opportunity to administer, score, and interpret selected instruments. Prerequisites: PSY 100, 105, and 330.

PSY 435 3 hours
Applied Advanced Psychological Statistics
The course provides students with knowledge of statistical methods, how to effectively use them in real world settings doing meaningful projects and when to use the methods based on the data and research design that is utilized. The SPSS statistical package is integrated into the structure of the course content that includes Repeating Measures ANOVA; multiple comparison tests; Two-Way and Three-Way ANOVA Independent groups; One-Way and Two-Way ANCOVA; Simple and Multiple Regression; One-Way, Two-Way, and Mixed factors MANOVA; Point Biserial Correlation; statistics for validity and reliability; Path Analysis; and effect sizes that these statistics tests. Prerequisite: PSY 330.

PSY 441 3 hours
Physiological Psychology
A study of the neurophysiology underlying human behavior. Emphasis is given to central nervous system mechanisms that mediate sensation, consciousness, learning, motivation, and emotional behavior.

PSY 450 1-4 hours
Directed Research
Investigative learning involving closely directed research and the use of such facilities as the library or laboratory. Prerequisites: PSY 100, 105, and 272.

PSY 461 3 hours
Fundamentals of Counseling
An analysis of the major theories and approaches to counseling, correlating them with counterpart theories of personality and learning. Each major theory is dealt with in the light of biblical revelation. As a result, the student is encouraged to formulate a tentative theory of counseling consistent with biblical truth. Prerequisites: PSY 100 and 105 or instructor’s permission.

PSY 480 3 hours
Seminar
Required for senior psychology majors with an emphasis on directed readings and discussion. The content of the readings and discussions will focus on integrative material in the discipline, as well as contemporary issues confronting not only professional psychologists, but lay persons as well. Offered January interterm.

PSY 490 1-2 hours
Honors
Individualized study or research of an advanced topic within a student’s major. Open to students with at least a 3.00 GPA in the major field.

PSY 495 3 hours
Integration of Psychology and Christianity
An examination of the relationship between psychology and Christian beliefs about human nature. Topics involve the presuppositions of modern psychology, the Christian view of the person, and tension areas between psychology and theology. Prerequisites: PSY 100, 105, and completion of 38 total hours in the major.

Notes