

# 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; an optional concentration in Pre-Medicine is available. 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 **History, Global, and Political Studies** section in this catalog.

## 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 **Art, Film, and Media** section in this catalog.

## Psychology (BA)

The Bachelor of Arts degree with a major in Psychology requires two years of one foreign language and 43 major hours. All major courses must be completed with a grade of C- or better and are included in the major GPA.

### Major Requirements

PSY 100	3	Introductory Psychology
PSY 105	3	Foundations and Applications of Psychology
PSY 250	3	Life Span Development
PSY 272	3	Research Methods in Psychology
PSY 275	3	Introductory Statistics
PSY 325	1	Career and Vocational Issues Seminar
PSY 495	3	Integration of Psychology and Christianity

Select one personal course from the following:

PSY 300	3	Abnormal Psychology
PSY 305	3	Behavior Problems of Child and Adolescence
PSY 400	3	Theories of Personality

Select one biological course from the following:

PSY 382	3	Sensation and Perception
PSY 395	3	Health Psychology
PSY 441	3	Physiological Psychology

Select one cognition or learning course from the following:

PSY 410	3	Motivation
PSY 411	3	Learning: Theory and Application
PSY 420	3	Cognition

Select one sociocultural course from the following:

PSY 320	3	Multicultural Psychology
PSY 321	3	Social Psychology

Select one applied course from the following:

PSY 281	3	Applied Behavior Analysis and Autism Treatments
PSY 422	3	Psychological Testing
PSY 425	3	Industrial-Organizational Psychology
PSY 461	3	Fundamentals of Counseling

Select 3 credit hours from the following:

PSY 393	3	Practicum
PSY 450	3	Directed Research

### Electives

Select two psychology courses totaling at least 6 hours

## Psychology/Systems (BS)

The Bachelor of Science degree with a major in Psychology/Systems requires the 43-hour major and curriculum requirements in information systems and analytics. All major courses, including information systems and analytics curriculum courses, must be completed with a grade of C- or better and are included in the major GPA.

### Curriculum Requirements

COS 143	3	Interactive Webpage Development
COS 326	3	Data Visualization
MAT 151	4	Calculus I
MAT 382	3	Advanced Statistical Methods
SYS 101	3	Introduction to Systems
SYS 390	3	Information Systems Analysis
SYS 394	4	Information Systems Design

Select one course<sup>1</sup> from the following:

COS 120	4	Introduction to Computational Problem Solving
SYS 120	4	Introduction to Problem Solving

Select one course<sup>1</sup> from the following:

PSY 425	3	Industrial-Organizational Psychology
SYS 330	3	Human Relations in Organizations

Select one course<sup>1</sup> from the following:

MAT 311	3	Introduction to Data Science
MAT 401	3	Operations Research
SYS 402	3	Modeling and Simulation

Select one course<sup>1</sup> from the following:

MAT 210	4	Introductory Statistics
MAT 352	4	Mathematical Statistics

Select one course<sup>1</sup> from the following:

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

### Electives

Select at least 3 additional hours of electives<sup>1</sup>, in addition to those required in the major:

COS 121	4	Foundations of Computer Science
ENT 422	3	New Venture Planning
MGT 201	3	Introduction to Business
MGT 403	3	Operations Management
SYS 214	3	Principles of Human Computer Interaction
SYS 310	3	E-Commerce

<sup>1</sup>Selection may depend on major.

## Psychology—Pre-Medicine Concentration (BA)

The Bachelor of Arts degree in Psychology with a concentration in Pre-Medicine requires two years of one foreign language and 84 major hours. All major courses must be completed with a grade of C- or better and are included in the major GPA.

### Major Requirements

PSY 100	3	Introductory Psychology
PSY 105	3	Foundations and Applications of Psychology
PSY 250	3	Life Span Development
PSY 272	3	Research Methods in Psychology
PSY 325	1	Career and Vocational Issues Seminar
PSY 495	3	Integration of Psychology and Christianity

Select one personal course from the following:

PSY 300	3	Abnormal Psychology
PSY 305	3	Behavior Problems of Child and Adolescence
PSY 400	3	Theories of Personality

Select one biological course from the following:

PSY 382	3	Sensation and Perception
PSY 395	3	Health Psychology
PSY 441	3	Physiological Psychology

Select one cognition or learning course from the following:

PSY 410	3	Motivation
PSY 411	3	Learning: Theory and Application
PSY 420	3	Cognition

Select one sociocultural course from the following:

PSY 320	3	Multicultural Psychology
PSY 321	3	Social Psychology

Select one applied course from the following:

PSY 281	3	Applied Behavior Analysis and Autism Treatments
PSY 422	3	Psychological Testing
PSY 425	3	Industrial-Organizational Psychology
PSY 461	3	Fundamentals of Counseling

Select 3 credit hours from the following:

PSY 393	3	Practicum
PSY 450	3	Directed Research

### Electives

Select two psychology courses totaling at least 6 hours

### Biology Courses

Select four courses from the following:

BIO 201*	4	Biology I: Foundations of Cell Biology and Genetics
BIO 203*	4	Principles of Genetics
BIO 310*	4	Human Anatomy and Physiology I
BIO 311*	4	Human Anatomy and Physiology II
BIO 312*	4	Cellular and Molecular
BIO 331	4	Comparative Anatomy
BIO 452	4	Animal Physiology

\*Recommended

### Chemistry Courses

CHE 211	4	College Chemistry I
CHE 212	4	College Chemistry II
CHE 311	4	Organic Chemistry I
CHE 312	4	Organic Chemistry II

### Math Courses

MAT 210	4	Introductory Statistics
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### Physics Courses

PHY 203	4	General Physics I
PHY 204	4	General Physics II

## Autism Studies and Intervention Minor

A minor in Autism Studies and Intervention requires 21 hours. All minor courses must be completed with a grade of C- or better and are included in the minor GPA.

### Minor Requirements

PSY 280	3	Introduction to Autism Spectrum Disorders
PSY 281	3	Applied Behavior Analysis and Autism Treatments
PSY 380	3	Ethical and Professional Issues in Autism Intervention Seminar
PSY 393	3	Practicum

Select one course<sup>1</sup> from the following:

PSY 381	3	Single Subject Research and Behavioral Assessment
PSY 422	3	Psychological Testing
SED 340	3	Assessment of Exceptional Learners

Select one course<sup>1</sup> from the following:

PSY 300	3	Abnormal Psychology
PSY 305	3	Behavior Problems of Child and Adolescence
SED 220	3	Exceptional Children

Select one course<sup>1</sup> from the following:

PSY 382	3	Sensation and Perception
PSY 441	3	Physiological Psychology
SED 330	3	Foundations of Special Education

## Counseling Minor

A minor in Counseling requires 20-21 hours. All minor courses must be completed with a grade of C- or better and are included in the minor GPA.

### Minor Requirements

PSY 100	3	Introductory Psychology
PSY 205	3	Psychology of Adjustment
PSY 300	3	Abnormal Psychology
PSY 393	3	Practicum
PSY 461	3	Fundamentals of Counseling
PSY 462	3	Counseling Skills

Select one course from the following:

NAS 230	2	Health Education for Behavior Change
PSY 375	3	Loss and Bereavement
PSY 395	3	Health Psychology

## Health and Wellness Minor

A minor in Health and Wellness requires 20-21 hours. All minor courses must be completed with a grade of C- or better and are included in the minor GPA.

### Minor Requirements

PSY 100	3	Introductory Psychology
PSY 205	3	Psychology of Adjustment
PSY 250	3	Life Span Development
PSY 393	3	Practicum
PSY 395	3	Health Psychology

Select two courses from the following:

EXS 217	3	Health Promotion Program Planning
KIN 221	3	Exercise as Medicine
NAS 230	2	Health Education for Behavior Change
PBH 100	3	Introduction to Public Health
PSY 300	3	Abnormal Psychology
PSY 370 <sup>‡</sup>	3	Selected Topics <sup>‡</sup>
PSY 400	3	Theories of Personality

<sup>‡</sup>Must be Positive Psychology course.

### Industrial-Organizational Minor

A minor in Industrial-Organizational requires 21 hours. All minor courses must be completed with a grade of C- or better and are included in the minor GPA.

#### Minor Requirements

PSY 100	3	Introductory Psychology
PSY 272	3	Research Methods in Psychology
PSY 275	3	Introductory Statistics
PSY 425	3	Industrial-Organizational Psychology
PSY 450	3	Directed Research

Select 6 credits from the following:

ENT 430	3	Leadership and Stewardship
MGT 352	3	Management Analysis and Practice
PSY 320	3	Multicultural Psychology
PSY 400	3	Theories of Personality
PSY 422	3	Psychological Testing

### Intercultural Psychology Minor

A minor in Intercultural Psychology requires 22 hours. All minor courses must be completed with a grade of C- or better and are included in the minor GPA.

#### Minor Requirements

CAC 340	3	Intercultural Communication
ENG 444	3	Contemporary Literature
PSY 100	3	Introductory Psychology
PSY 320	3	Multicultural Psychology
PSY 321	3	Social Psychology
PSY 393	3	Practicum†
PSY 480	1	Seminar

Select 3 credits from the following:

ENG 373	3	Literature of Diverse Cultures
PSY 280	3	Introduction to Autism Spectrum Disorders
PSY 375	3	Loss and Bereavement
PSY 450	3	Directed Research
SOC 220	3	Ethnic and Minority Issues
SOC 381	3	Marriage and Family Systems
SWK 320	3	Unleashing the Oppressed

†Must be Intercultural Psychology

### Neuroscience Minor

A minor in Neuroscience requires 21-23 hours. All minor courses must be completed with a grade of C- or better and are included in the minor GPA.

#### Minor Requirements

BIO ____	3-4	Any Biology course
CHE ____	3-4	Any Chemistry course
PSY 100	3	Introductory Psychology
PSY 389	3	Behavioral Neuroscience Applications
PSY 395	3	Health Psychology
PSY 441	3	Physiological Psychology

Select one course<sup>1</sup> from the following:

PSY 382	3	Sensation and Perception
PSY 420	3	Cognition

### 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

PSY 100	3	Introductory Psychology
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#### 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

#### PSY 100 3 hours

##### Introductory Psychology

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 3 hours

##### Foundations and Applications of Psychology

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 2 hours

##### Intrapersonal Psychology

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

#### PSY 170 1-4 hours

##### Selected Topics

A course offered on a subject of interest but not listed as a regular course offering.

#### PSY 205 3 hours

##### Psychology of Adjustment

This course is designed to provide students with the background and resources necessary to investigate the psychological and social variables that contribute to the dynamics of human adjustment. The desired outcome is for students to use this knowledge to actively take charge of their own lives, effectively adjusting to an ever-changing world. Further, students will be encouraged to use the concepts and information presented in this class to develop a fuller understanding of the self, along with greater awareness of personal and social relationships.

#### PSY 210 2 hours

##### Ethics in Psychology

A study of various models of ethics, with a desire to develop a Christian model. The Christian model is then applied to various issues in counseling, psychopathology, research, human development, law, and educational psychology. Prerequisite: PSY 100.

#### PSY 220 3 hours

##### Sport Psychology

This course investigates the interpersonal, societal, and cultural variables that surround athletics and sports in our contemporary culture. Topics include personality variables of the successful athlete; anxiety and arousal in sports, as well as strategies to assist in the control of these states; motivation; casual attributions for success and failure in athletes and coaches; the role of the direct and indirect contexts of sports and competition; and exercise psychology. Prerequisite: PSY 100.

- PSY 240** **3 hours**  
**Child Psychology**  
 This course deals with the subject matter of developmental psychology (cognitive, physical, and socio-emotional development) and applies the subject matter to those actively working with children, including parents, teachers, coaches, etc. *Meets foundational core general social science requirement.*
- PSY 250** **3 hours**  
**Life Span Development**  
 This course is designed to provide a general overview of the developmental process in humans from conception through death and dying. Included is attention to the physical, cognitive psychosocial and spiritual developments. *Meets foundational core general social science requirement.*
- PSY 251** **1 hour**  
**Life Span Development: Adolescence, Adulthood, and Aging**  
 This course is designed to provide a general overview of the developmental processes in humans from adolescence through, adulthood, aging and the dying process. Included is attention to the physical, cognitive, psychosocial, and spiritual developments. *Intended for majors and non-majors (e.g., Social Work, Christian Ministries, Exercise Science) who have taken Child Psychology (PSY 240) or Child and Adolescent Psychology (PSY 350) but need a life span perspective as required by their program or as recommended for their future graduate school plans. The class meets with PSY 250 for the second half of the semester. Does not meet a foundational core requirement. Prerequisite: PSY 240 or PSY 350.*
- 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** **3 hours**  
**Research Methods in Psychology**  
 Research methods in psychology are studied and critiqued. Students are involved in practical research and writing assignments. *Prerequisite: PSY 100.*
- PSY 275** **3 hours**  
**Introductory Statistics**  
 An introduction to descriptive and inferential statistics used in research. Students will be involved in the computation, application, and interpretation of various elementary statistics.
- PSY 280** **3 hours**  
**Introduction to Autism Spectrum Disorders**  
 This course will help students develop an understanding of the social, behavioral, and developmental issues for individuals with ASD across the life span. After the course, students will know and understand the etiology, symptoms, and diagnostic criteria of Autism Spectrum Disorder.
- PSY 281** **3 hours**  
**Applied Behavior Analysis and Autism Treatments**  
 The course focuses on understanding autism spectrum disorders through the life span. Diagnostic criteria, identification, assessment, and the variety of treatment and interventions used with individuals with autism spectrum disorders are reviewed.
- 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. *Prerequisite: PSY 100 or instructor's permission.*
- PSY 305** **3 hours**  
**Behavior 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 313** **3 hours**  
**Statistics for Behavioral Sciences**  
 The major concepts covered in the class will be descriptive statistics, basic probability theory, and inferential statistics. Demonstrations of Microsoft Excel competency will be assigned for each segment of the class. *This course is offered through Taylor University Online (TUO).*
- PSY 317** **3 hours**  
**Psychology of Learning**  
 In this course, students will become acquainted with the major theories of the psychology of learning, along with basic biblical principles about humanity. Through personal investigation, observation, and basic research, students will learn to recognize and apply the theories of psychology of learning to their own lives as well as in the lives of others. *This course is offered through Taylor University Online (TUO).*
- PSY 320** **3 hours**  
**Multicultural Psychology**  
 An introduction to the psychological development of differences in worldviews, cultural identity development, discrimination and 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 and PSY 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 and PSY 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 and PSY 272; junior standing required.*
- 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.
- PSY 340** **3 hours**  
**Adolescent Psychology**  
 This course deals with the problems of adolescent development and resulting issues, including peer pressure and conformity, adult-adolescent conflicts, cognitive changes, adjustments to physical changes, struggles with identity, etc. Contemporary issues, including drug and alcohol use, eating disorders, and teen sexuality are also discussed. The focus is on a practical application of research literature with an integration of biblical principles. *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 275.*
- 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 multi-disciplinary perspective. *Prerequisites: PSY 100 and PSY 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 375** 3 hours  
**Loss and Bereavement**  
This course examines the journey through loss and grief and includes not only death-related bereavement but also psychological, physical, developmental, and situational losses that occur throughout the life. While the course is designed with a systemic perspective, a more general grieving paradigm is also presented through current theories and research. Students have the opportunity to practice helpful responses to loss and learn how to facilitate healthy adaptation to change. The role of culture in the experience of loss and grief is explored. *Prerequisite: PSY 100 or instructor's permission.*
- PSY 380** 3 hours  
**Ethical and Professional Issues in Autism Intervention Seminar**  
This course covers specific issues related to work in autism related fields. Students are exposed to legislation, rights, and ethical issues related to working with individuals with autism across the life span. At the completion of the course, all students must pass the RBT exam to be certified as a Registered Behavior Technician. *Prerequisites: PSY 280 and PSY 281.*
- PSY 381** 3 hours  
**Single Subject Research and Behavioral Assessment**  
This course will introduce students to methods of conducting single subject designs for behavioral intervention. Students will also learn the salient features of common single subject designs as well as the advantages and disadvantages of these methodologies. Students will learn to visually inspect data and make treatment decisions regarding intervention effectiveness. Additionally, students will learn how to review published research based on single subject methods and will have opportunities to explore how these methods can be used to answer applied and basic science research questions and how results inform therapeutic intervention choices.
- PSY 382** 3 hours  
**Sensation and Perception**  
Examination of how observers perceive their environment through sensory information; emphasis on major sensory systems including vision, audition, spatial orientation, touch, taste, and olfaction. In addition, the integration of these sensory systems and subjective experience will be explored.
- PSY 389** 3 hours  
**Behavioral Neuroscience Applications**  
This course explores diverse applications of behavioral neuroscience in real-world settings and across domains and disciplines including psychological disorders, forensics, education, consumer behavior, economics, leadership, health, and robotics and artificial intelligence.
- 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, psychoneuroimmunology, 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 volition, 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.*
- 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 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 and PSY 275. Offered Spring semester of odd years.*
- PSY 425** 3 hours  
**Industrial-Organizational Psychology**  
This course is designed to provide an introduction to applying psychological principles, theory, and research to the work environment. Topics include hiring, job fit, performance, assessment, training, motivation, stress, leadership, teams, and interpersonal relationships. Students will complete an applied project examining and evaluating the hiring process and performance evaluation of an organizational job. *Prerequisite: PSY 100 or instructor's permission. Offered Spring semester of even years.*
- 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 275.*
- 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 and PSY 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. *Prerequisite: PSY 100 or instructor's permission.*
- PSY 462** 3 hours  
**Counseling Skills**  
This course introduces and provides foundational communication and interpersonal counseling skills from therapeutic listening and empathy to interviewing skills. It is experiential and aimed at helping students develop a foundation of strong, effective therapeutic people helping skills. *Prerequisite: PSY 461.*
- PSY 480** 1-4 hours  
**Seminar**  
A limited-enrollment course designed especially for upper-class majors with 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.*
- 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 and completion of 38 total hours in the major.*