# University Mission Statement

Alliant International University prepares students for professional careers of service and leadership and promotes the discovery and application of knowledge to improve the lives of people in diverse cultures and communities around the world. Alliant is committed to excellence in four areas:

1. **Education for Professional Practice**: Alliant’s educational programs are designed to give students the knowledge, skills and ethical values they need to serve and lead effectively in a variety of professional settings. Alliant graduates are expected to achieve mastery of a body of knowledge and be able to apply that knowledge in professional practice in order to achieve desired and beneficial outcomes.
2. **Scholarship**: Scholarship in the Alliant context includes the discovery of new knowledge; the discovery of new applications of knowledge to solve practical problems; the integration of knowledge in new ways; and innovation in teaching knowledge and professional competencies.
3. **Multicultural and International Competence**: Alliant is an inclusive institution committed to serving diverse populations around the world by preparing professionals to work effectively across cultural and national boundaries, by increasing the number of professionals working in underserved areas, and by understanding and responding to the needs of diverse communities.
4. **Community Engagement**: Alliant’s faculty, students, alumni and staff are dedicated to making a positive difference in the world through professional education and practice. We measure the success of our university in part by the impact we have, both directly and indirectly, on the welfare of individuals, families, organizations and communities.

# The California School of Education (CSOE)

Alliant International University offers a full spectrum of credential, certificate and degree programs designed to address the educational needs of all learners in the 21st century, from infancy and entry into P-12 education system through adult life. Each program integrates significant, evidence-based, data-driven educational concepts into coursework, focusing on what is successful in education for diverse populations. The California School of Education’s mission and vision statements reaffirm our values and commitment to collaboration, diversity, and service to candidates, shared leadership, and the continuous support of the education profession.

**Mission**: CSOE prepares competent, confident, and conscientious educational leaders who will promote and empower personal growth, academic success, and professional achievement for all in a global society.

**Vision**: To develop and promote transformative educational experiences that optimize human potential.

**Goals**: The California School of Education has a set of overarching goals that drive the direction of the School’s programs and internal and external operations:

1. To provide the education and training of well-rounded professionals who will serve local, national and global schools and organizations.
2. To engage and partner with communities to translate professional practice and research to meet education needs.
3. To promote an academic culture of support to develop and apply transformative approaches to solve complex societal challenges.
4. To develop analytic skills and sound judgment as applied to content and professional issues.
5. To make warranted and thoughtful decisions about curriculum issues, student-related concerns and leadership that relate to the conduct of the school and the profession.
6. To provide professional educational opportunities for those who aspire to leadership in education settings.
7. To prepare candidates to meet the needs of all learners.

**Unit Guiding Principles**

CSOE's guiding principles are anchored in the belief that our mission is realized when our candidates are equipped with the skills to operationalize LEAD. LEAD stands for Leadership (L) Engagement (E) Application (A) and Dedication (D). As leaders, candidates demonstrate social responsibility, ethical action, and a commitment to be agents of change to improve the lives of their communities (L). We highlight for our candidates the value of authentic and collaborative engagement in advancing our communities (E). We train our candidates to be reflective professionals who incorporate theory into best practices; and utilize the knowledge, skills, dispositions, habits of inquiry, and technology that their preparation has honed (A). Courses and assignments are intentionally designed to engage experiences that promote the understanding of theories, concepts, principles, methodologies and approaches that candidates can readily utilize for practice. As candidates in both initial and advanced stages engage in observations, field experiences, and clinical practice, they provide service to their learners/clients, while simultaneously making instructional decisions that are grounded in educational research and/or theory (D).

**L**= Leadership: Innovation with Accountability

**E**= Engagement: Active Learning

**A**=Application: Theory to Practice

**D**=Dedication: Inclusive Excellence

**Theoretical Framework**

CSOE is based on two main theoretical frameworks: Boyer’s applied scholarship of learning and constructivist theory.

CSOE utilizes Boyer's model of the scholarship of application:

Boyer (1990) asserted the need for all disciplines to move beyond traditional research to engage the full scope of academic work. He posits that in order to advance disciplines holistically and to obtain rewards for professional practice, research should encompass four critical areas:

Discovery - generating new and unique knowledge;

Teaching - Faculty and candidates creatively build bridges between their own understanding and their students' learning;

Application – Taking the new knowledge acquired and utilizing to solve society's problems; and

Integration – Using collaborative relationships to uncover new knowledge among disciplines (Boyer, 1990).

These four aspects of scholarship are of paramount importance to CSOE. Each of the four areas informs the guiding principles of LEAD for CSOE.

*Scholarship of Discovery* (L, E, A, D): We subscribe to the centrality of the need to advance inquiry that produces the disciplinary and professional knowledge that frames our candidate preparation and training (Boyer, 1990). We ensure that our candidates are prepared to foster an environment that supports inclusive excellence with the commitment and understanding necessary to be responsive to all learners (D). Candidates acquire the ability to collaborate successfully (E) with parents, families, school districts, community members, faculty and staff in order to gain and maintain this disposition.

*Scholarship of Teaching* (L, E, A, D): CSOE subscribes to Boyer's model that underscores the notion of the scholarship of teaching as inquiry that produces knowledge to facilitate the transfer of the science and art of teaching, counseling and leadership from expert to novice. Thus we are very intentional in stewarding our mentoring relationships between faculty, school district master teachers, school site supervisors and our advisory boards. We view these relationships as critical to the transfer of teaching knowledge.

*Scholarship of Professional Practice* (A): Professional practice in CSOE is comprised of all aspects of the delivery of education, counseling, and leadership. Competence in practice is determined in school setting practicums and internships. Professional Practice is also the mechanism through which CSOE provides the environment and skills by which knowledge in the profession is both advanced and applied. In this segment, we also include the mentoring of candidates and leadership roles in developing practice. In all of the above, we highlight the scholarship generated through practice. Our Faculty and candidate professional certifications, degrees, and credentials and other specialty credentials demonstrate CSOE's attainments in this sphere.

*Scholarship of Integration* (L, E, A): In this sphere, faculty and candidates engage in the review and analysis of education policy, integrative models across disciplines, literature review and use all these to develop transdisciplinary educational programs and projects. Further, CSOE faculty are active and present at national and international conferences, serve on the leadership of professional organizations and contribute to journal articles. These are examples of how CSOE demonstrates the scholarship of integration. The guiding principles and candidate competencies are framed with the understanding that effective learning environments are social and collaborative in nature (Vygotsky, 1978).

The second theoretical underpinning for CSOE is constructivism. We concur with the assertion that our candidates and their students are active makers of meaning, rather than passive absorbers of knowledge (Dewey, 1944; Vygotsky, 1962; Brosio, 2000).

We expect our candidates to engage social constructivism by utilizing existing knowledge, interests, attitudes, and goals to select and interpret available information. Our faculty recognize the insider knowledge our candidates’ bring to our courses and provide the environment for them to utilize their uniquely personal knowledge to create meaning as they integrate these knowledge bases with their diverse cultural, ethnic, social, and economic circumstances through analysis, reflection, and research.

We model a humanistic learning environment that encourages critical inquiry to connect learners with one another (Rodgers, 2002; Greene, 2000; Palmer, 1998; Sergiovanni, 1999). Faculty members create caring environments where candidates are encouraged and supported to reach beyond themselves and to engage various points of view, diversity of ideas and practices.

# CTC Pupil Personnel Services Generic Program Standards

* **Standard 1 Program Design, Rationale and Coordination:** Coordinated effectively in accordance with a cohesive design that has a cogent rationale. Foundation and theoretical courses precede and are designed to be taken prior to more specialized and advanced courses.
* **Standard 2 Growth and Development:** Acquire an understanding of typical and atypical growth and development, including relevant theories, research, and other information related to pupils’ strengths and weaknesses that affect learning in school, community and family environments. The program provides candidates with an understanding of the effects of (a) health and developmental factors, (b) language, (c) cultural variables, (d) diversity, (e) socioeconomic status, and (f) factors of resiliency on pupil development.
* **Standard 3 Socio-Cultural Competence:** Display an understanding of ways in which ethnic, cultural, socioeconomic, and environmental factors influence pupil learning and achievement. Candidates will learn skills to work effectively with pupils and their families from diverse backgrounds. The program provides candidates with an understanding and appreciation for diversity. An understanding of the importance of developing cultural competence is provided to candidates in order to effectively serve diverse and changing communities. The program provides candidates with an understanding of the ways in which educational policies, programs and practices can be developed, adapted, and modified to be culturally congruent with the needs of pupils and their families.
* **Standard 4 Assessment:** Knowledge of current theories and methods of using assessment data to support data-based decision making for the purpose of understanding, evaluating and promoting positive pupil performance, program outcomes, and school climate. Candidates develop an understanding of the influence of multiple factors on pupil achievement. The program requires candidates to analyze assessment information in a manner that produces valid inferences when evaluating the needs of individual pupils and assessing the effectiveness of educational programs.
* **Standard 5 Comprehensive Prevention and Early Intervention for Achievement:** Display an understanding of the factors that contribute to successful learning. In order to help pupils attain high learning goals, the program provides candidates with the knowledge to identify problems in their earliest stages and to implement prevention and early intervention strategies for addressing these problems. The program requires candidates to demonstrate knowledge of classroom, school, family, and community factors that support pupil learning and to develop skills to assist pupils who experience learning difficulties.
* **Standard 6 Professional Ethics and Legal Mandates:** Display an understanding of professional codes of ethics and current legal mandates, as well as an awareness of the range of legal issues, such as, statutory, regulatory, and case law affecting the delivery of pupil services. The program requires candidates to demonstrate the ability to access information about legal and ethical matters.
* **Standard 7 Family-School Collaboration:** Display an understanding of the ways in which pupil development, well being, and learning are enhanced by family-school collaboration. The program requires candidates to work with parents to foster respectful and productive family-school collaboration.
* **Standard 8 Self-esteem and Personal and Social Responsibility:** Assess their own self-esteem and to demonstrate an understanding of principles associated with the building of (a) self-esteem, (b) personal and social responsibility, and (c) their relationship to the life-long learning process.
* **Standard 9 School Safety and Violence Prevention:** Understand ways in which school environments can enhance the safety and well-being of all pupils. The program provides candidates with the knowledge and models of systematic school safety planning that include comprehensive school climate and crisis response plans addressing elements of prevention, intervention, and treatment. The program provides candidates with opportunities and experiences to demonstrate knowledge and skills to assist in the development and implementation of a comprehensive program to reduce the incidence of school site violence. The program provides candidates with knowledge and skills that address the needs of witnesses, victims and perpetrators of violence as they relate to improved behavior and enhanced teaching and learning.
* **Standard 10 Consultation:** Demonstrate knowledge and application of theories, models, and processes of consultation. The program provides candidates with opportunities and experiences to display the ability to use communication, interpersonal, and problem-solving skills in consultation with teachers, administrators, other school personnel, family members, community groups, and agencies. Candidates demonstrate skills in using a decision-making process when consulting and collaborating with others to (a) identify problem areas, (b) collect and analyze information to understand problems, (c) make decisions about service delivery, and (d) evaluate the implementation and outcome of the service delivery plan.
* **Standard 11 Learning Theory and Educational Psychology:** Display an understanding of learning theories and factors influencing learning and teaching such as cognition, memory, attention skills, perceptual-sensory processes, emotional state, motivation, organizational skills, gender, cultural differences, and linguistic differences. Candidates know how to evaluate the congruence between instructional strategies and pupil learning assets and deficits.
* **Standard 12 Professional Leadership Development:** Display an understanding of the development, improvement and evaluation of programs that support effective pupil learning. The program also provides candidates with an understanding of the importance of leadership by the pupil personnel services provider in operating as a systems change agent.
* **Standard 13 Collaboration and Coordination of Pupil Support Systems:** Collaborate effectively with community-based organizations, agencies, and other professionals. Candidates demonstrate knowledge of programs and services within a comprehensive model of support at the school site level designed to promote high expectations and increase pupil learning and achievement.
* **Standard 14 Human Relations:** Demonstrate self-awareness, sensitivity to others, and skillfulness in relating to individuals and groups. The program provides candidates with opportunities and experiences to understand the importance of socio-psychological concepts of group formation, reference groups, inter-group and intra-group relations and conflict. The program provides candidates with opportunities and experiences to demonstrate an ability to facilitate group process and mediate conflict.
* **Standard 15 Technological Literacy:** Demonstrate skills in current technology for communication and collecting, organizing, distributing and analyzing data and resources in order to facilitate effective and appropriate outcomes in program management and individual student achievement.
* **Standard 16 Supervision and Mentoring:** Demonstrate knowledge of models of supervision used to mentor pre-professionals in practica and field experience placements. Candidates recognize the important role that field-site supervisors play in pre-professional training of future pupil personnel service providers.

# CTC Pupil Personnel Services School Counseling Credential Specialization Standards

**I. Core Knowledge Base and Foundations**

* **Standard 17 Foundations of the School Counseling Profession:** Knowledge and understanding of the core areas including history, philosophy and trends in school counseling; state and national standards; models of comprehensive and developmental school counseling and guidance programs; and the theoretical bases for counseling practices in schools.
* **Standard 18 Professionalism, Ethics & Legal Mandates:** Understanding of ways to develop a professional identity congruent with the knowledge of all aspects of professional functions, professional development, and organizational representation. The program provides candidates with knowledge of current legal mandates impacting school counselors and pupils. The program provides candidates with knowledge of the ethical standards and practices of the school counseling profession and how to apply these ethical standards to specific counseling situations.

**II. Professional Skills and Training**

**A. Domains of School Counseling and Guidance**

* **Standard 19 Academic Development:** Understanding of the concepts, principles, strategies, programs and practices for enabling pupils to experience academic success and achieve at high levels. Candidates are able to implement strategies and activities in the school setting for maximizing learning, producing high-quality work and preparing pupils for a full range of options and opportunities after high school, including the completion of a college and university education.
* **Standard 20 Career Development:** Knowledge of the components of career development programs and provides them with opportunities to develop, implement and evaluate such programs in schools.
* **Standard 21 Personal and Social Development:** Apply knowledge and understanding to the theories, concepts, processes, skills and practices required for successful personal and social development. Candidates are able to plan, organize and implement programs that enable pupils to acquire knowledge, attitudes and interpersonal skills that help them understand and respect themselves and others, make decisions, set goals and take necessary action to achieve goals, and to understand and develop safety and survival skills.

**B. Themes of School Counselor Preparation**

* **Standard 22 Leadership:** Know the qualities, principles, and styles of effective leadership. Candidates also possess the knowledge, skills and attitudes of effective leadership by acting as agents of change in planning, organizing, implementing, managing and evaluating the outcomes of school counseling and guidance programs that increase student learning and achievement.
* **Standard 23 Advocacy:** Demonstrate skills and attitudes essential for advocating for the learning and academic success of all pupils. Candidates are able to identify institutional, systemic, interpersonal and intrapersonal barriers to learning, and are able to plan and implement strategies to eliminate those barriers and effectively support positive learning and achievement outcomes for all pupils.
* **Standard 24 Learning, Achievement and Instruction:** Know appropriate classroom management strategies and techniques for assisting teachers with classroom organization. Candidates understand curriculum design, lesson plan development, and instructional strategies for teaching counseling and guidance related material.

**C. Functions of School Counselors**

* **Standard 25 Individual Counseling:** Demonstrate knowledge of the theories of counseling, the stages of the counseling relationship, and the elements of effective counseling, particularly as they pertain to the three domains of school counseling. Candidates also know and demonstrate skills in helping pupils cope with personal and interpersonal problems as well as skills in crisis intervention in response to personal, school, and community crises. Candidates are able to design and implement programs of wellness promotion, prevention, treatment and intervention services. In addition, candidates understand and possess skill for evaluating counseling outcomes, including the impact of individual and small group counseling on student learning and achievement. Candidates know community-based mental health referral resources and effective referral practices.
* **Standard 26 Group Counseling and Facilitation:** Understand group dynamics and possess skill in group work, including counseling, psycho-educational, task, and peer helping groups; and facilitation of teams to enable pupils to overcome barriers and impediments to learning.
* **Standard 27 Collaboration, Coordination and Team Building:** Apply skills of effective collaboration among school staff, parents, individuals, groups, and agencies in the community to meet developmental needs along a continuum of preschool through adult pupils. In collaborative efforts, candidates demonstrate competence in coordinating the services of community members, agency personnel and parents within a comprehensive school counseling and guidance program as it relates to the educational mission of the school. Candidates know and possess skills in building effective working teams of school staff, parents and community members for eliminating personal, social, and institutional barriers to learning and increasing student academic achievement and learning success.
* **Standard 28 Organizational and System Development:** Understand the organization, structure, and cultural context of schools as educational systems and are able to plan, develop, implement and evaluate systemic and comprehensive counseling and guidance programs that are part of an overall school plan. Such programs include student outcomes that reflect the impact of counseling and guidance programs on student learning and academic achievement.
* **Standard 29 Prevention Education and Training:** Know and have skill in the planning, organizing and implementing educational programs designed to promote pupil learning and high academic achievement. Candidates also have knowledge in preventing problems that pose barriers to learning and achievement. Candidates develop knowledge and skills in working with school staffs, parents, and family members to enable them to eliminate barriers to learning and achievement.
* **Standard 30 Research, Program Evaluation and Technology:** Knowledgeable about basic principles of research design, action research, and program evaluation. This includes traditional experimental design as well as qualitative and single-subject designs. Candidates are able to differentiate high quality from inadequate research, and understand measurement and statistics in sufficient depth to evaluate published research and conduct evaluations of counseling and guidance and other educational programs in terms of student outcomes. Candidates understand and utilize computer technology and attendant technological applications for conducting program evaluation.

**III. Field Experience and Competency Evaluation**

* **Standard 31 Field Experience:** Demonstrate knowledge and skills in applying the themes and functions of school counseling in school settings designed and organized to support the training and preparation of school counselors. Candidates demonstrate in field experience the knowledge of and skills in working with pre-K through adult pupils in the areas identified in the standards for school counseling.
* **Standard 32 Determination of Candidate Competence:** Determine that candidates have satisfied each professional standard. This determination is based on thorough documentation and written verification by at least one district supervisor and one institutional supervisor. Candidates have also documented that they have earned an appropriate graduate degree from an accredited institution of higher learning.

# CTC Pupil Personnel Services School Psychology Credential Specialization Standards

**I. Core Knowledge Base and Foundation**

* **Standard 17 Psychological Foundations:** Foundation in the knowledge base for the discipline of psychology in order to facilitate the individual development of all pupils. This knowledge base includes biological foundations of behavior, human learning, social and cultural bases of behavior, child and adolescent development, and the diversity of individual differences in development and learning.
* **Standard 18 Educational Foundations:** Foundation in the knowledge base of education concerning the organization and operation of schools, school and community-based resources, as well as alternative service delivery systems. The program requires candidates to be prepared to help design and operate programs to promote school-family interactions. The program requires candidates to be knowledgeable about: (a) family influences on pupil cognitive, motivational, and social characteristics that affect classroom performance; (b) family involvement in education; (c) ways to promote partnerships between parents and educators to improve outcomes for pupils; (d) cultural issues that impact home-school collaboration; and (e) methods to facilitate safe and caring school communities.
* **Standard 19 Legal, Ethical and Professional Foundations:** Knowledge base specific to the professional specialty of school psychology. This knowledge base includes (a) the history and foundations of school psychology, (b) legal and ethical issues, (c) professional issues and standards, (d) alternative models for the delivery of school psychological services, (e) emergent technologies, and (f) the roles and functions of the school psychologist. The program requires candidates to understand the diverse values that influence the lives of people, and to be prepared to practice in schools in ways that meet all appropriate ethical, professional, and legal standards both to enhance the quality of services and to protect the rights of all parties.

**II. Professional Skills and Training**

* **Standard 20 Collaborative Consultation:** Positive interpersonal skills with which to facilitate communication for the purposes of consultation and collaboration with teachers, teams of school personnel, community professionals, agencies, and families. Candidates are prepared to listen, adapt, deal with ambiguity, and be patient in difficult situations. Candidates are able to clearly present and exchange information in a variety of contexts with diverse audiences such as families, teachers, school boards, policy makers, business leaders, and fellow school pupil service providers.
* **Standard 21 Wellness Promotion, Crisis Intervention and Counseling:** Design, implement and evaluate wellness, prevention, intervention, and other mental health programs at the individual, group and system levels. They are knowledgeable about academic, behavioral, and serious personal difficulties. As primary mental health service providers, candidates are able to recognize the behaviors and contexts that are precursors to the development of internalizing disorders, externalizing disorders, and dropping out of school. Candidates can design programs and implement prevention, intervention, and treatment services across the hierarchy of pupils’ development needs. Candidates can work with school personnel, pupils, parents, and the general community in the aftermath of personal, school and community crises.
* **Standard 22 Individual Evaluation and Assessment:** Versed in a variety of assessment methods, including formal and informal test administration, behavioral assessment, interview, ecological or environmental assessment, as well as assessment methodologies to define a student’s problems and needs, to assess current status, and to measure the effects of the problems-solving process. Candidates also understand contextual influences on outcomes, such as: (a) personal attributes of the pupil; (b) types of aptitude; and (c) community, cultural, gender, and language influences, and (d) classroom climate and instructional practices. Candidates understand how to use assessment information in a problem solving process and are able to convey findings in an articulate way to a diverse audience. Candidates are able to use data-based decision making to improve outcomes for instruction, development of cognitive and academic skills, and the development of life competencies. Candidates also demonstrate an understanding of the process and procedures identified in federal and state laws related to special education services, such as the Individuals with Disabilities Education Act (IDEA).
* **Standard 23 Program Planning and Evaluation:** Understand the school as a system. Candidates work with individuals and groups to facilitate organizational structures and policies that create and maintain safe school environments that promote learning and enhance positive educational outcomes for pupils. Candidates utilize data-based decision making skills to (a) assist in the development of challenging but achievable goals for all pupils; (b) provide information about ways in which pupils can achieve these goals; and (c) monitor pupil progress toward these goals. Candidates are skillful in evaluating local school programs and in interpreting findings to other educators and to the public.
* **Standard 24 Research, Measurement, and Technology:** Know basic principles of research design. This includes traditional experimental designs as well as qualitative and single-subject designs. Candidates are able to differentiate high quality from inadequate research, and understand measurement and statistics in sufficient depth to evaluate published research and conduct investigations relevant to their work. Candidates understand and utilize computer technology and attendant technological applications.

**III. Field Experience and Practica**

* **Standard 25 Practica:** Engage in field-based activities in all areas of professional training. Specifically, candidates are provided with practica experiences in the areas of (a) collaboration and consultation, (b) wellness promotion, (c) counseling and crisis intervention, (d) individual assessment, (e) educational planning and evaluation, (f) program planning and evaluation, (g) and research and measurement. Candidates demonstrate the ability to select and apply core knowledge regarding psychological foundations, educational foundations, and legal, ethical, and professional foundations in their work in schools. Practica consists of a series of supervised experiences that occur prior to the field experience, are conducted in laboratory or field-based settings or both. They provide for the application of knowledge and mastery of distinct skills. There must be a systematic means of evaluating the practica experiences that seeks to ensure the acquisition of desired skills by pupils.
* **Standard 26 Culminating Field Experience:** Demonstrate the full range of skills acquired during formal training, and to acquire additional knowledge and skills most appropriately gained through supervised professional experience. Under the supervision of a credentialed school psychologist, candidates provide direct and indirect services to pupils, parents, and school staff in all areas of training.
* **Standard 27 Determination of Candidate Competence:** Determine that candidates have satisfied each professional standard. This determination is based on thorough documentation and written verification by at least one district supervisor and one institutional supervisor. Candidates have also documented that they have earned an appropriate graduate degree from an accredited institution of higher learning.

# BACB Task List 5th Edition

**Section 1: Foundations**

A. Philosophical Underpinnings

* A-1 Identify the goals of behavior analysis as a science (i.e., description, prediction, control).
* A-2 Explain the philosophical assumptions underlying the science of behavior analysis (e.g., selectionism, determinism, empiricism, parsimony, pragmatism).
* A-3 Describe and explain behavior from the perspective of radical behaviorism.
* A-4 Distinguish among behaviorism, the experimental analysis of behavior, applied behavior analysis, and professional practice guided by the science of behavior analysis.
* A-5 Describe and define the dimensions of applied behavior analysis (Baer, Wolf, & Risley, 1968).

B. Concepts and Principles

* B-1 Define and provide examples of behavior, response, and response class.
* B-2 Define and provide examples of stimulus and stimulus class.
* B-3 Define and provide examples of respondent and operant conditioning.
* B-4 Define and provide examples of positive and negative reinforcement contingencies.
* B-5 Define and provide examples of schedules of reinforcement.
* B-6 Define and provide examples of positive and negative punishment contingencies.
* B-7 Define and provide examples of automatic and socially mediated contingencies.
* B-8 Define and provide examples of unconditioned, conditioned, and generalized reinforcers and punishers.
* B-9 Define and provide examples of operant extinction.
* B-10 Define and provide examples of stimulus control.
* B-11 Define and provide examples of discrimination, generalization, and maintenance.
* B-12 Define and provide examples of motivating operations.
* B-13 Define and provide examples of rule-governed and contingency-shaped behavior.
* B-14 Define and provide examples of the verbal operants.
* B-15 Define and provide examples of derived stimulus relations.

C. Measurement, Data Display, and Interpretation

* **C-1 Establish operational definitions of behavior.**
* **C-2 Distinguish among direct, indirect, and product measures of behavior.**
* **C-3 Measure occurrence (e.g., frequency, rate, percentage).**
* **C-4 Measure temporal dimensions of behavior (e.g., duration, latency, interresponse time).**
* **C-5 Measure form and strength of behavior (e.g., topography, magnitude).**
* **C-6 Measure trials to criterion.**
* **C-7 Design and implement sampling procedures (i.e., interval recording, time sampling).**
* **C-8 Evaluate the validity and reliability of measurement procedures.**
* **C-9 Select a measurement system to obtain representative data given the dimensions of behavior and the logistics of observing and recording.**
* C-10 Graph data to communicate relevant quantitative relations (e.g., equal-interval graphs, bar graphs, cumulative records).
* C-11 Interpret graphed data.

D. Experimental Design

* **D-1 Distinguish between dependent and independent variables.**
* **D-2 Distinguish between internal and external validity.**
* **D-3 Identify the defining features of single-subject experimental designs (e.g., individuals serve as their own controls, repeated measures, prediction, verification, replication).**
* **D-4 Describe the advantages of single-subject experimental designs compared to group designs.**
* **D-5 Use single-subject experimental designs (e.g., reversal, multiple baseline, multielement, changing criterion).**
* **D-6 Describe rationales for conducting comparative, component, and parametric analyses.**

**Section 2: Applications**

E. Ethics

Behave in accordance with the Professional and Ethical Compliance Code for Behavior Analysts.

* E-1 Responsible conduct of behavior analysts
* E-2 Behavior analysts’ responsibility to clients
* E-3 Assessing behavior
* E-4 Behavior analysts and the behavior-change program
* E-5 Behavior analysts as supervisors
* E-6 Behavior analysts’ ethical responsibility to the profession of behavior analysis
* E-7 Behavior analysts’ ethical responsibility to colleagues
* E-8 Public statements
* E-9 Behavior analysts and research
* E-10 Behavior analysts’ ethical responsibility to the BACB

F. Behavior Assessment

* F-1 Review records and available data (e.g., educational, medical, historical) at the outset of the case.
* F-2 Determine the need for behavior-analytic services.
* F-3 Identify and prioritize socially significant behavior-change goals.
* F-4 Conduct assessments of relevant skill strengths and deficits.
* F-5 Conduct preference assessments.
* F-6 Describe the common functions of problem behavior.
* F-7 Conduct a descriptive assessment of problem behavior.
* F-8 Conduct a functional analysis of problem behavior.
* F-9 Interpret functional assessment data.

G. Behavior-Change Procedures

* G-1 Use positive and negative reinforcement procedures to strengthen behavior.
* G-2 Use interventions based on motivating operations and discriminative stimuli.
* G-3 Establish and use conditioned reinforcers.
* G-4 Use stimulus and response prompts and fading (e.g., errorless, most-to-least, least-to-most, prompt delay, stimulus fading).
* G-5 Use modeling and imitation training.
* G-6 Use instructions and rules.
* G-7 Use shaping.
* G-8 Use chaining.
* G-9 Use discrete-trial, free-operant, and naturalistic teaching arrangements.
* G-10 Teach simple and conditional discriminations.
* G-11 Use Skinner’s analysis to teach verbal behavior.
* G-12 Use equivalence-based instruction.
* G-13 Use the high-probability instructional sequence.
* G-14 Use reinforcement procedures to weaken behavior (e.g., DRA, FCT, DRO, DRL, NCR).
* G-15 Use extinction.
* G-16 Use positive and negative punishment (e.g., time-out, response cost, overcorrection).
* G-17 Use token economies.
* G-18 Use group contingencies.
* G-19 Use contingency contracting.
* G-20 Use self-management strategies.
* G-21 Use procedures to promote stimulus and response generalization.
* G-22 Use procedures to promote maintenance.

H. Selecting and Implementing Interventions

* H-1 State intervention goals in observable and measurable terms.
* H-2 Identify potential interventions based on assessment results and the best available scientific evidence.
* H-3 Recommend intervention goals and strategies based on such factors as client preferences, supporting environments, risks, constraints, and social validity.
* H-4 When a target behavior is to be decreased, select an acceptable alternative behavior to be established or increased.
* H-5 Plan for possible unwanted effects when using reinforcement, extinction, and punishment procedures.
* H-6 Monitor client progress and treatment integrity.
* H-7 Make data-based decisions about the effectiveness of the intervention and the need for treatment revision.
* H-8 Make data-based decisions about the need for ongoing services.
* H-9 Collaborate with others who support and/or provide services to clients.

I. Personnel Supervision and Management

* I-1 State the reasons for using behavior-analytic supervision and the potential risks of ineffective supervision (e.g., poor client outcomes, poor supervisee performance).
* I-2 Establish clear performance expectations for the supervisor and supervisee.
* I-3 Select supervision goals based on an assessment of the supervisee’s skills.
* I-4 Train personnel to competently perform assessment and intervention procedures.
* I-5 Use performance monitoring, feedback, and reinforcement systems.
* I-6 Use a functional assessment approach (e.g., performance diagnostics) to identify variables affecting personnel performance.
* I-7 Use function-based strategies to improve personnel performance.
* I-8 Evaluate the effects of supervision (e.g., on client outcomes, on supervisee repertoires).

\***Note**. The items that are bold are addressed in this course.

# Course Description

This course examines research methods and data collection tools used in behavior analysis. You will learn the procedures for defining, measuring, and assessing behavior. Additionally, you will learn to make objective, databased decisions through critical analyses and evaluation of research journal articles and textbook comprehension.

# Professional Standards Alignment

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| --- | --- | --- |
| **California School of Education (CSOE)** | **California Commission on Teacher Credentialing****Pupil Personnel Services Program Standards** | **Supporting Assessment** |
| **Course Learning Outcomes (CLO)** | **Conceptual Framework** | **Generic** | **School Counseling Credential Specialization****(as applicable)** | **School Psychology Credential Specialization****(as applicable)** | **Assessment Title**  |
| **CLO1**: Analyze measurable dimensions of behavior and measurement systems. | Application | Standard 1,4 | Standard 30 | Standard 22  | Discussions/Reflections |
| **CLO2**: Determine appropriate methods in selecting meaningful goals for intervention, defining behaviors and selecting measurement systems.  | Application | Standard 1,4 | Standard 30 | Standard 22, 23, 24 | Discussions/Week 8 Single Subject Research Proposal |
| **CLO3**: Evaluate various types of single subject design research.  | Application | Standard1 | Standard 30 | Standard 22,24 | Discussions/Reflections |
| **CLO4**: Critique measurement procedures and graphic techniques.  | Application | Standard 1, 4 | Standard 30  | Standard 22,23 | Discussions/Line Graphs |
| **CLO5**: Apply data-based decision-making practices in single subject design research methods. | Application | Standard1 | Standard 30 | Standard 22,24 | Discussions/ReflectionsWeek 8 Single Subject Proposal  |

# Student Expectations

**Respectful Speech and Actions**: As an institution of higher education, Alliant International University has the obligation to combat racism, sexism, and other forms of bias and to provide an equal educational opportunity. Professional codes of ethics and the academic code shall be the guiding principles in dealing with speech or actions that, when considered objectively, are abusive and insulting.

**Professional Behavior**: This program is a graduate-level professional program, and each member of the program, both students and faculty, are expected to engage in professional behavior and conduct. Students should always display empathy, self-control, friendliness, generosity, cooperation, helpfulness, and respect in all of their interactions with other students, staff, and faculty. Students will strive to exemplify professional behavior in all aspects of their participation in this program, to be on time in all engagements, to thoughtfully and diligently complete activities and assignments, and to treat all other program members with respect and dignity.

# Required Course Materials

Kennedy, C. H. (2005). *Single-case designs for educational research*. Boston, MA: Pearson Education, Inc.

 ISBN-10: 0205340237

 ISBN-13: 9780205340231

Cooper, J. O., Heron, T. E., & Heward, W. L. (2019). *Applied Behavior Analysis* (3rd ed), Columbus, OH: Pearson.

 ISBN-10: 0134752554

 ISBN-13: 9780134752556

Online resource to accompany Applied Behavior Analysis, Second Edition, by John O. Cooper, Timothy E. Heron, and William L. Heward, retrieved from <https://wps.prenhall.com/chet_cooper_appliedbeh_2/>.

 **Note**. As you are working towards practice and learning repertoire needed for the BACB exam. This website provides helpful practice with content found in reading.

# University Administrative Policies & Student Resources

Administrative policies and students resources for the university can be accessed in the most current catalog posted on the university website <http://catalog.alliant.edu/index.php>.

**Course Overview**

[Week 1: Introduction to Single Subject Program Design 15](#_Toc40167831)

[Week 2: Replication, Experimental Analysis, & Quantifying Behavior 18](#_Toc40167832)

[Week 3: Recording Systems & IOA 23](#_Toc40167833)

[Week 4: Functional Relationships & Designs 26](#_Toc40167834)

[Week 5: Experimental Designs in Single Subject Research 29](#_Toc40167835)

[Week 6: Experimental, Combined Designs, & Graphic Designs 32](#_Toc40167836)

[Week 7: Visual Analysis 35](#_Toc40167837)

[Week 8: Social Validity 38](#_Toc40167838)

# Course Grading

Grading is in accordance with the academic policies of Alliant International University.

|  |  |
| --- | --- |
| **Percentage** | **Letter Grade** |
| 94-100 | A |
| 90-93 | A- |
| 87-89 | B+ |
| 84-86 | B |
| 80-83 | B- |
| 77-79 | C+ |
| 74-76 | C |
| 70-73 | C- |
| 67-69 | D+ |
| 64-66 | D |
| 61-63 | D- |
| < 61% | F |

Final grades will be determined as follows based on the points obtained in the following categories:

|  |  |
| --- | --- |
| **Assignment Categories** | **% of Grade** |
| Discussion | 44 |
| Quiz | 14 |
| Graph Designs | 7 |
| Research Report | 35 |

# Course Assessments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Assessment** | **Due** | **Assignment Category** | **Point Value** |
| **Week 1** |  |  |  |
|  | Discussion: Single Subject Design |  | Discussion | 10 |
|  | Discussion: Validity & Functional Relationships |  | Discussion | 10 |
|  | Discussion: Variables |  | Discussion | 10 |
|  | Assignment: Week 1 Quiz |  | Quiz | 10 |
| **Week 2** |  |  |  |
|  | Discussion: Measuring Behavior |  | Discussion | 10 |
|  | Discussion: Experimental Questions |  | Discussion | 10 |
|  | Discussion: Quantifying Behavior |  | Discussion | 10 |
|  | Assignment: Week 2 Quiz |  | Quiz | 10 |
| **Week 3** |  |  |  |
|  | Discussion: Recording Systems |  | Discussion | 10 |
|  | Discussion: Data Collection |  | Discussion | 10 |
|  | Discussion: Interobserver Agreement |  | Discussion | 10 |
|  | Assignment: Week 3 Quiz |  | Quiz | 10 |
| **Week 4** |  |  |  |
|  | Discussion: Functional Relation |  | Discussion | 10 |
|  | Discussion: Multielement Designs |  | Discussion | 10 |
|  | Discussion: Proposed Single Subject Research Experiment |  | Research Report | 20 |
|  | Assignment: Week 4 Quiz |  | Quiz | 10 |
| **Week 5** |  |  |  |
|  | Discussion: Experimental Designs |  | Discussion | 10 |
|  | Discussion: Multiple Baseline Design |  | Discussion | 10 |
|  | Discussion: Repeated Acquisition Designs |  | Discussion | 10 |
|  | Assignment: Week 5 Quiz |  | Quiz | 10 |
| **Week 6** |  |  |  |
|  | Discussion: Experimental Designs |  | Discussion | 10 |
|  | Discussion: Combined Designs |  | Discussion | 10 |
|  | Discussion: Graph Designs |  | Graph Designs | 30 |
|  | Assignment: Week 6 Quiz |  | Quiz | 10 |
| **Week 7** |  |  |  |
|  | Discussion: Visual Data Analysis |  | Discussion | 10 |
|  | Discussion: Single Subject Research Report Draft |  | Research Report | 50 |
| **Week 8** |  |  |  |
|  | Discussion: Social Validity |  | Discussion | 10 |
|  | Assignment: Single Subject Research Report |  | Research Report | 100 |
| **Total Points** |  |  | **440** |

Week 1: Introduction to Single Subject Program Design

Learning Objectives

|  |  |
| --- | --- |
| * 1. Determine the importance of single subject design within the practice of applied behavior analysis experimental research.
 | CLO5 |
| * 1. Analyze the significance of internal validity, external validity, and functional relations.
 | CLO1 |
| * 1. Differentiate between independent and dependent variables in single case designs.
 | CLO5 |

# Activities and Resources

|  |  |
| --- | --- |
| **Readings** | 1.1, 1.2, 1.3 |
| ***Single-case Designs for Educational Research*** * Ch. 1: Conducting Experiments
* Ch. 2: History of Single Case Designs
* Ch. 3: Functional Relations
 |
| ***Applied Behavior Analysis*** Ch. 10: Planning and Evaluating Applied Behavior Analysis Research |
| ***YouTube*****View** the following videos: * “[The hard science behind ABA! (single subject research part 1)](https://youtu.be/o5_p1PhZzSE)” [10:06]. This video will help you understand the need for single subject design research in ABA and educational programs.
* “[Order an Article Through ArticleReach](https://youtu.be/iyuwAd8hvH0)” [1:31].
* “[Get Lit: The Literature Review](https://youtu.be/9la5ytz9MmM)” [45:37].
 |

# Assignments

|  |  |
| --- | --- |
| **Discussion: Single Subject Design** | 1.1 |
| **Respond** to the following prompts in the Single Subject Design discussion forum by Wednesday: * What is your current understanding of single subject design?
* How does single subject design differ from group designs in educational research?
* Why is the practice of single subject designs important within the practice of applied behavior analysis experimental research?
* What would be a research question you would like to investigate utilizing a single subject design for a future proposal paper?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Validity & Functional Relationships** | 1.2 |
| **Respond** to the following prompts in the Validity & Functional Relationships discussion forum by Thursday: * What is the difference between internal and external validity? Provide an example of both types of validity in the real-world setting.
* Why is it important to demonstrate a functional relationship from your data?
* Why are baselines used to establish patterns of behavior in research or analyzing environments?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Variables** | 1.3 |
| **Respond** to the following prompts in the Variables discussion forum by Friday: * What is the difference between independent and dependent variables?
* Consider a topic you would like to investigate, what could be an independent and dependent variable within a single subject design proposal?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

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| --- | --- |
| **Assignment: Week 1 Quiz** | 1.1, 1.2, 1.3 |
| **Take** the Week 1 Quiz. **Write** a one-to two-sentence reflection, to earn back points for each incorrect question, explaining what the correct answer is in the comment box for the quiz. **Note**. You can locate the comment box by going to **Grades** in the **Course Menu** and then click on the **Quiz title** link. You should see a box to enter a comment. |

Week 2: Replication, Experimental Analysis, & Quantifying Behavior

Learning Objectives

|  |  |
| --- | --- |
| * 1. Analyze the various forms of replication in research.
 | CLO3 |
| * 1. Distinguish the types of experimental analysis used in single subject research.
 | CLO3 |
| * 1. Compare data measurements and dimensions.
 | CLO1 |

# Activities and Resources

|  |  |
| --- | --- |
| **Readings** | 2.1, 2.2, 2.3 |
| ***Single-case Designs for Educational Research*** * Ch. 4: Direct and Systematic Replication
* Ch. 5: Experimental Questions
* Ch. 6: Quantifying Behavior
 |
| ***Applied Behavior Analysis*** * Ch. 4: Measuring Behavior
* Ch. 7: Analyzing Behavior Change: Basic Assumptions and Strategies
 |
| ***YouTube*****View** the following videos: * “[Single Subject Research Part 2](https://youtu.be/DHkGTMZW3nY)” [8:43]
* “[Parametric Analysis](https://youtu.be/1Nh2nC_565A)” [7:20]
 |

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| --- | --- |
| **Preparation: Single Subject Research Report** | CLO1, CLO2, CLO3, CLO4, CLO5 |
| **Background**Single subject research methods have emerged over the last 40 years as a major approach for investigating environment-behavior relationships such as treatments. Applied behavior analysts drove this emergence, but the designs have utility to special educators because individuals with disabilities are a heterogeneous group, even within diagnostic categories. Thus, special education scientists should be competent in reading, critiquing, and conducting such studies.**Purpose**This assignment will help you refine your skills in developing research proposals for single subject experimental studies. The assignment simulates a proposal that could be continued following this course, after IRB approval and proper supervision! Other purposes for this signature assignment are to assist you in narrowing your research interests, refine a technical writing style, demonstrate acquisition and lastly application of course competencies.**Review** the relevant literature to identify a topic of study. **Develop** an experimental study using a single subject design. Do not develop a study with any other research method. You should develop the most rigorous methods possible and include citations to the literature, when appropriate, in the method section.**Write** a 7-to 9-page Single Subject Research Report that includes the following: * Introduction­–This is where you build rationale for your topic of study.
	+ Clearly defined topic of study
	+ Three-to four-page review of literature
	+ Purpose statement
	+ List of research questions that identify what you intend to find
* Methods
	+ Description of participants that includes:
		- Number of participants proposed for your research
		- Inclusion and exclusion criteria for the participants
		- Demographic characteristics of your study
		- Any other measures used or collected to describe the participants

**Note**. In this section be sure to use operational terms and precise and detailed descriptions. Ensure the description of the method is feasible, operational, and replicable. To be replicable, a colleague should be able to take the method section and do the study in a manner identical to your intentions without your consultation. It is strongly recommended that you give your product to a classmate to read and provide feedback. * + Setting & Materials
		- Defined operationally, replicable, appropriate to the research questions and controls for plausible threats to internal validity
		- Control for plausible threats to internal validity
		- Metric measures used
* Discussion
	+ Describe and define the responses you will measure, including examples and non-examples.
	+ Identify the type of measurement system you will use.
	+ Describe how it will be implemented, how observers will be trained, and how interobserver agreement data will be collected and calculated.
	+ Describe the experimental design to be used and include a justification for using that design rather than potential alternatives.
	+ Describe the procedural and parameters of each experimental condition, and how and on what procedural fidelity data will be collected.
* References

**Format** your paper consistent with APA style guidelines. The references and title page should not be included on your total page count. **Submit** a draft on Week 7 and a final version in Week 8. |

# Assignments

|  |  |
| --- | --- |
| **Discussion: Measuring Behavior** | 2.1 |
| **Respond** to the following prompts in the Measuring Behavior discussion forum by Wednesday: * When discussing replication in research, why is applying Occam’s razor, or rule of parsimony, as a decision-making guide important?
* Why is replication important in research? Provide an example.
* What is the difference between direct, systematic and intraexperiment replication?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Experimental Questions** | 2.2 |
| **Respond** to the following prompts in the Experimental Questions discussion forum by Thursday: * What are the four basic types of experimental analysis? Provide a brief explanation of each in your own words.
* Based on the type of analysis, how will this affect how you will take data for your research? Provide your own example for one of the basic types of research and when this type of analysis would be warranted.

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Quantifying Behavior** | 2.3 |
| **Respond** to the following prompts in the Quantifying Behavior discussion forum by Friday: * Why is it beneficial to count data rather than the simple use of mentalism’s?
* What are the differences between rate, duration, latency, and interresponse time? Provide an example of how and when you would use each method of data collection.

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

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| --- | --- |
| **Assignment: Week 2 Quiz** | 2.1, 2.2, 2.3 |
| **Take** the Week 2 Quiz. **Write** a one-to two-sentence reflection, to earn back points for each incorrect question, explaining what the correct answer is in the comment box for the quiz. **Note**. You can locate the comment box by going to **Grades** in the **Course Menu** and then click on the **Quiz title** link. You should see a box to enter a comment. |

Week 3: Recording Systems & IOA

Learning Objectives

|  |  |
| --- | --- |
| * 1. Formulate a recording system for use in single subject research.
 | CLO1 |
| * 1. Explain the various types of data collection used in single subject research.
 | CLO2 |
| * 1. Determine when data collection within interobserver agreements is justified.
 | CLO4 |

# Activities and Resources

|  |  |
| --- | --- |
| **Readings** | 3.1, 3.2, 3.3 |
| ***Single-case Designs for Educational Research*** * Ch. 7: Recording Systems
* Ch. 8: Interobserver Agreement
 |
| ***Applied Behavior Analysis*** * Ch. 4: Measuring Behavior
* Ch. 5: Improving and Assessing the Quality of Behavioral Measurement
 |
| ***YouTube*****View** the “[Interobserver agreement - live calculation](https://youtu.be/JTzsilKuuco)” [7:38] |

# Assignments

|  |  |
| --- | --- |
| **Discussion: Recording Systems** | 3.1 |
| **Develop** your own recording system for recording up to *three* behaviors.  **Respond** to the following prompts in the Recoding Systems discussion forum by Wednesday: Describe the behavior defined for your recording system and type of measurement you will be using to record these behaviors.**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Data Collection** | 3.2 |
| **Respond** to the following prompts in the Data Collection discussion forum by Thursday: * What is event recording? Provide one example of its use.
* What is permanent product recording? Provide one example of it in practice.
* What is duration recording? Provide one example of it in practice.

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Interobserver Agreement** | 3.3 |
| **Respond** to the following prompts in the Interobserver Agreement discussion forum by Friday: * Why collect interobserver agreement (IOA) data in research?
* Select *one* type of IOA from your chapter reading, what are steps to use it? Why would you utilize it? What situation or circumstance would this type of IOA be necessary?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Assignment: Week 3 Quiz** | 3.1, 3.2, 3.3 |
| **Take** the Week 3 Quiz. **Write** a one-to two-sentence reflection, to earn back points for each incorrect question, explaining what the correct answer is in the comment box for the quiz. **Note**. You can locate the comment box by going to **Grades** in the **Course Menu** and then click on the **Quiz title** link. You should see a box to enter a comment. |

Week 4: Functional Relationships & Designs

Learning Objectives

|  |  |
| --- | --- |
| * 1. Determine the importance of in single subject design research.
 | CLO5 |
| * 1. Analyze the various multielement designs.
 | CLO4, CLO5 |
|  | CLO2, CLO5 |

# Activities and Resources

|  |  |
| --- | --- |
| **Readings** | 4.1, 4.2, 4.3 |
| ***Single-case Designs for Educational Research*** * Ch. 9: A-B-A-B Designs
* Ch. 10: Multielement Designs
 |
| ***Applied Behavior Analysis*** Ch. 8: Reversal and Multielement Designs**Review** Ch. 5 Improving and Assessing the Quality of Behavioral Measurement |
| ***YouTube*****View** the following videos: * “[ABAB Design](https://youtu.be/6E6Aa3xs1XA)” [7:43]
* “[Experimental Methods, Concepts, and Designs](https://youtu.be/6cd03nFTzTw)” [7:05]
* “[Calculating Event-Based IOA](https://youtu.be/WQBwbAWNQ1o)” [3:54]
 |

|  |  |
| --- | --- |
| **Preparation: Single Subject Research Report Proposal** | CLO1, CLO2, CLO3, CLO4, CLO5 |
| **Continue** working on your Single Subject Research Report.  **Ensure** you share your product to a classmate to read and provide feedback before Week 7.  |

# Assignments

|  |  |
| --- | --- |
| **Discussion: Functional Relation** | 4.1 |
| **Respond** to the following prompts in the Functional Relation discussion forum by Wednesday: * Why is establishing a functional relation important in single subject design research? How do A-B and A-B-A-B designs differ?
* Why is the sequence important when determining functional relation and control?
* Why is the reversibility of behavior important in single subject design research? Refer to page 126 of *Single-case Designs for Educational Research*. Provide your thoughts from the study noted.
* What are some of the strengths and limitations of ABAB designs?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Multielement Designs** | 4.2 |
| **Respond** to the following prompts in the Multielement Designs discussion forum by Thursday: * Why, in some cases, are multielement designs most important to determine a functional relation and determining control?
* What are some of the various names used, as well as their meanings, within multielement design research? Refer to page 137 of *Single-case Designs for Educational Research*.
* Share an article that utilizes a multielement design.
* How would you use a multielement design in research?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Proposed Single Subject Research Experiment** | 4.3 |
| **Respond** to the following prompts in the Proposed Single Subject Research Experiment discussion forum by Friday: Share with the class the design you are utilizing for your proposed single subject research experiment. * Describe the design you will be proposing.
* Define both independent and dependent variables you are measuring.
* Why did you select this type of measurement design for your single subject research proposal?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Assignment: Week 4 Quiz** | 4.1, 4.2, 4.3 |
| **Take** the Week 4 Quiz. **Write** a one-to two-sentence reflection, to earn back points for each incorrect question, explaining what the correct answer is in the comment box for the quiz. **Note**. You can locate the comment box by going to **Grades** in the **Course Menu** and then click on the **Quiz title** link. You should see a box to enter a comment. |

Week 5: Experimental Designs in Single Subject Research

Learning Objectives

|  |  |
| --- | --- |
| * 1. Determine differences between experimental design used in single subject research.
 | CLO4 |
| * 1. Analyze multiple baseline design and changing criterion design.
 | CLO4, CLO5 |
| * 1. Analyze the use of repeated acquisition designs in single subject research.
 | CLO4, CLO5 |

# Activities and Resources

|  |  |
| --- | --- |
| **Readings** | 5.1, 5.2, 5.3 |
| ***Single-case Designs for Educational Research*** * Ch. 11: Multiple Baseline Designs
* Ch. 12: Repeated Acquisition Designs
 |
| ***Applied Behavior Analysis*** Ch. 9: Multiple Baseline and Changing Criterion Designs |
| ***YouTube*****View** the following videos: * “[Multiple Baseline Design](https://youtu.be/LaV7Dif9Nag)” [5:08]
* “[Multielement Design](https://youtu.be/CI2JPReMfS4)” [1:28]
* “[Alternating Treatment Designs](https://youtu.be/lySgsuSYVPY)” [6:24]
 |

|  |  |
| --- | --- |
| **Preparation: Single Subject Research Report Proposal** | CLO1, CLO2, CLO3, CLO4, CLO5 |
| **Continue** working on your Single Subject Research Report.  **Ensure** you share your product to a classmate to read and provide feedback before Week 7.  |

# Assignments

|  |  |
| --- | --- |
| **Discussion: Experimental Designs** | 5.1 |
| **Respond** to the following prompts in the Experimental Designs discussion forum by Wednesday: * What are some differences between ABAB, Multielement and multiple Baseline design?
* When would it be ethical to use a Multiple Baseline Design as opposed to an ABAB design?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Multiple Baseline Design** | 5.2 |
| **Respond** to the following prompts in the Multiple Baseline Design discussion forum by Thursday: * What are variants of the Multiple Baseline Design?
* When would it be appropriate to utilize this type of design?
* What are the strengths and limitations with this type of design?
* May Changing Criterion Design be used to evaluate the effects of treatment or improvement of subject’s behavior already in the subject’s repertoire?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Repeated Acquisition Designs** | 5.3 |
| **Respond** to the following prompts in the Repeated Acquisition Designs discussion forum by Friday: When would utilizing repeated acquisition designs be a safe alternative to the multiple baseline design? When would you want to utilize this approach? Provide at least one example of repeated acquisition design in research.**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Assignment: Week 5 Quiz** | 5.1, 5.2, 5.3 |
| **Take** the Week 5 Quiz. **Write** a one-to two-sentence reflection, to earn back points for each incorrect question, explaining what the correct answer is in the comment box for the quiz. **Note**. You can locate the comment box by going to **Grades** in the **Course Menu** and then click on the **Quiz title** link. You should see a box to enter a comment. |

Week 6: Experimental, Combined Designs, & Graphic Designs

Learning Objectives

|  |  |
| --- | --- |
| * 1. Analyze brief experimental designs used in research.
 | CLO3 |
| * 1. Analyze combined designs used in single subject research.
 | CLO4 |
| * 1. Employ Excel to create graphs used in single subject research.
 | CLO4 |

# Activities and Resources

|  |  |
| --- | --- |
| **Readings** | 6.1, 6.2, 6.3 |
| ***Single-case Designs for Educational Research*** * Ch. 13: Brief Experimental Designs
* Ch. 14: Combined Designs
 |
| ***Applied Behavior Analysis*** Ch. 6: Constructing and Interpreting Graphic Displays of Behavioral Data |
| ***YouTube*****View** the following videos: * “[How to Create Withdrawal & ABAB Reversal Graph in Excel](https://youtu.be/fy8n38VSbW4)” [4:55]
* “[Graphing Multi-Baseline Multiple-Probe Design Using Excel and Word](https://youtu.be/luC2-fsARzs)” [43:14]
* “[Combining Design Types](https://youtu.be/_yPowg7Ks24)” [6:28]
 |

|  |  |
| --- | --- |
| **Preparation: Single Subject Research Report Proposal** | CLO1, CLO2, CLO3, CLO4, CLO5 |
| **Continue** working on your Single Subject Research Report.  **Ensure** you share your product to a classmate to read and provide feedback before Week 7.  |

# Assignments

|  |  |
| --- | --- |
| **Discussion: Experimental Designs** | 6.1 |
| **Respond** to the following prompts in the Experimental Designs discussion forum by Wednesday: * When considering brief experimental designs, describe at least one variant design listed in your texts.
* What are the strengths and limitations to using this type of research design?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Combined Designs** | 6.2 |
| **Respond** to the following prompts in the Combined Designs discussion forum by Thursday: * What are some contributions of combined designs?
* What makes this approach effective for research in the educational setting?
* Share at least two different combinations utilized in research.
* What are the strengths and limitations to using this type of research design?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

|  |  |
| --- | --- |
| **Discussion: Graph Designs** | 6.3 |
| **Invent** your own data to create the following graphs in Excel: * ABAB Reversal
* Alternating Treatments
* Multiple Baseline design

**Refer** to the videos from this week’s Activities & Resources if you need help creating the graphs. **Share** your graphs in the Graph Designs discussion forum by Friday. **Include** a brief explanation of what the data represents and why each graph is useful. **Note**. There is no requirement to respond to a classmate’s post, but feel free to engage in professional discourse. |

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| **Assignment: Week 6 Quiz** | 6.1, 6.2, 6.3 |
| **Take** the Week 6 Quiz. **Write** a one-to two-sentence reflection, to earn back points for each incorrect question, explaining what the correct answer is in the comment box for the quiz. **Note**. You can locate the comment box by going to **Grades** in the **Course Menu** and then click on the **Quiz title** link. You should see a box to enter a comment. |

Week 7: Visual Analysis

Learning Objectives

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| --- | --- |
| * 1. Synthesize course materials to develop a single subject design research project.
 | CLO1, CLO2, CLO3, CLO4, CLO5 |
| * 1. Interpret the use of visual inspection when analyzing data from other sources of measurement.
 | CLO4 |

# Activities and Resources

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| **Readings** | 7.1, 7.2 |
| ***Single-case Designs for Educational Research*** Ch. 15: Visual Data Analysis |
| ***Applied Behavior Analysis*** **Review** Ch. 6: Constructing and Interpreting Graphic Displays of Behavioral Data |
| ***YouTube*****View** the “[Single Subject Research: Visual Analysis of Trend](https://youtu.be/yl2sB4VdQMU)” video [7:02]  |

# Assignments

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| **Discussion: Visual Data Analysis** | 7.2 |
| **Respond** to the following prompts in the Visual Data Analysis discussion forum by Wednesday: * When determining visual data analysis after implementing a specific research design, what is the process of analyzing different aspects of a data set?
* What is the difference between within phase and between phase patterns?
* Why is it important to use graphs to analyze data? Provide an example.
* What makes visual data analysis different from using statistical analysis?

**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

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| **Discussion: Single Subject Research Report Draft** | 7.1 |
| **Write** a 7-to 9-page Single Subject Research Report that includes the following: * Introduction­–This is where you build rationale for your topic of study.
	+ Clearly defined topic of study
	+ Three-to four-page review of literature
	+ Purpose statement
	+ List of research questions that identify what you intend to find
* Methods
	+ Description of participants that includes:
		- Number of participants proposed for your research
		- Inclusion and exclusion criteria for the participants
		- Demographic characteristics of your study
		- Any other measures used or collected to describe the participants

**Note**. In this section be sure to use operational terms and precise and detailed descriptions. Ensure the description of the method is feasible, operational, and replicable. To be replicable, a colleague should be able to take the method section and do the study in a manner identical to your intentions without your consultation. It is strongly recommended that you give your product to a classmate to read and provide feedback. * + Setting & Materials
		- Defined operationally, replicable, appropriate to the research questions and controls for plausible threats to internal validity
		- Control for plausible threats to internal validity
		- Metric measures used
* Discussion
	+ Describe and define the responses you will measure, including examples and non-examples.
	+ Identify the type of measurement system you will use.
	+ Describe how it will be implemented, how observers will be trained, and how interobserver agreement data will be collected and calculated.
	+ Describe the experimental design to be used and include a justification for using that design rather than potential alternatives.
	+ Describe the procedural and parameters of each experimental condition, and how and on what procedural fidelity data will be collected.
* References

**Format** your paper consistent with APA style guidelines. The references and title page should not be included on your total page count.**Submit** a draft as a Word document to the Single Subject Research Report Draft discussion forum by *Friday*. **Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

Week 8: Social Validity

Learning Objectives

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| --- | --- |
| * 1. Synthesize course materials to develop a single subject design research project.
 | CLO1, CLO2, CLO3, CLO4, CLO5 |
| * 1. Analyze the use of social validity in single subject research.
 | CLO5 |

# Activities and Resources

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| **Readings** | 8.1, 8.2 |
| ***Single-case Designs for Educational Research*** Ch. 16: Social Validity |
| ***Applied Behavior Analysis*** **Review** Ch. 10: Planning and Evaluating Applied Behavior Analysis Research |

# Assignments

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| **Discussion: Social Validity** | 8.2 |
| **Respond** to the following prompt in the Social Validity discussion forum by Wednesday: Why is the concept of social validity important when conducting single subject design educational research in ABA?**Reply** to two classmate’s posts, applying the [RISE Model for Meaningful Feedback](http://www.risemodel.com/), by Sunday. If possible, respond to posts that have not yet received feedback from a classmate. |

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| **Assignment: Single Subject Research Report**  | 8.1 |
| **Revise** your draft as needed, incorporating feedback you received from Week 7.**Submit** a final version by Sunday. |

# Rubrics

**Discussion Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Exceeds Requirements****100%** | **Meets Requirements****88%** | **Approaches Requirements****75%** | **Below Requirements****68%** |
| **Initial Response to the Forum Topic** 5 points  | Topic is addressed thoughtfully, supported by citations to experts and personal experience, and builds on prior posts.  | Topic is addressed thoughtfully, supported by citations to personal experience, and builds on prior posts.  | Topic is addressed thoughtfully, but not thoroughly supported by citations to experts, personal experience, or previous posts.  | Topic is addressed superficially and without evidence that prior posts were considered.  |
| **Feedback to Peer’s Response to the Forum Topic** 5 points  | Thoughtful feedback included all levels of the RISE model and will result in a substantive improvement in the work if implemented.  | Thoughtful feedback missed one or two levels of the RISE model. Will result in an improvement in the work if implemented.  | Feedback was thoughtful but did not include specific suggestions and references for improvement.  | Feedback was superficial and did not cover all levels of the RISE model.  |

**Assignment Rubric–** **Single Subject Research Report Proposal**

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| --- | --- | --- | --- | --- |
|  | **Exceeds Requirements****100%** | **Meets Requirements****88%** | **Approaches Requirements****75%** | **Below Requirements****68%** |
| **Elements** 4 points | Demonstrates an above average level of knowledge of the required elements.  | Knowledge of the required elements is proficient.  | Knowledge of the required elements is not yet proficient.   | Knowledge of the required elements is introductory.  |
| **Application** 6 points | Demonstrates an above average level of knowledge of the connection between research and practice.   | Knowledge of the connection between research and practice is proficient.  | Knowledge of the connection between research and practice is not yet proficient.   | Knowledge of the connection between research and practice is introductory.  |

**Assignment Rubric–** **Single Subject Research Report Draft**

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| --- | --- | --- | --- | --- |
|  | **Exceeds Requirements****100%** | **Meets Requirements****88%** | **Approaches Requirements****75%** | **Below Requirements****68%** |
| **Elements** 20 points | Demonstrates an above average level of knowledge of the required elements.  | Knowledge of the required elements is proficient.  | Knowledge of the required elements is not yet proficient.   | Knowledge of the required elements is introductory.  |
| **Application** 30 points | Demonstrates an above average level of knowledge of the connection between research and practice.   | Knowledge of the connection between research and practice is proficient.  | Knowledge of the connection between research and practice is not yet proficient.   | Knowledge of the connection between research and practice is introductory.  |

**Signature Assignment Rubric**

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| --- | --- | --- | --- | --- |
|  | **Exceeds Requirements** | **Meets Requirements** | **Approaches Requirements** | **Below Requirements** |
| **Required Elements** | The work product exceeds expectations displaying an advanced level of knowledge including conceptually sound and logical literature review with purpose statement and research questions. 20 points | The work product meets expectations displaying an appropriate level of knowledge including conceptually sound and logical literature review with purpose statement and research questions. 18 points | The work product approaches expectations displaying an average level of knowledge including a literature review. The purpose statement and research questions are either missing or inadequate. 13 points | The work product does not expectations displaying a below average level of knowledge. The literature review, purpose statement and research questions are either missing or inadequate. 11 points |
| **Content** | The work product is articulate and detailed, displaying participants used inclusion and exclusion criteria. Setting & materials are operationally defined and appropriate to the research questions. The plan is a model for all to use.20 points | The work product is detailed, displaying participants used inclusion and exclusion criteria. Setting & materials are operationally defined and appropriate to the research questions. 18 points | The work product does not contain enough detail to provide evidence that participants used inclusion and exclusion criteria. Setting & materials are inadequately defined and may be inappropriate to the research questions. 13 points | The work product lacks detail, there is no evidence that participants used inclusion and exclusion criteria. Setting & materials are not operationally defined and are inappropriate to the research questions. 11 points |
| **Application** | The student displays an advanced level of knowledge of the requirements for single subject research and his or her own educational practice. 50 points | The student displays a proficient level of knowledge of the requirements for single subject research and his or her own educational practice.44 points | The student displays modest but insufficient level of knowledge of the requirements for single subject research and his or her own educational practice. 38 points | The student displays an insufficient level of knowledge of the requirements for single subject research and his or her own educational practice.34 points |
| **References & Format** | The work product provides a relevant and comprehensive reference section with no errors. Sources are cited within the work product. The work product conforms to APA standards with no errors.10 points | The work product provides a relevant and comprehensive reference section with minimal errors. Sources are cited within the work product. The work product conforms to APA standards with very few or no errors8 points | The work product provides a general reference section with few or no sources cited. The work product generally conforms to APA standards with some errors. 6 points | The work product has no reference section with few or no sources cited. The work product contains several errors and does not conform to APA guidelines.4 points |