Industrial/Organizational Psychology (IO)

IO 600X. Maintaining Matriculation. 0 Semester Hours.

IO 6185. Computer Appl in the Behavioral & Social Sciences-SPSS Basics. 1 Semester Hour.
This course provides students with the knowledge about the analysis and database features of SPSS, with emphasis on the data editor, variable view, and output windows, and cross-platform use with other software applications. The course is practice-based to ensure students gain skills in using the data editor, creating databases, manipulating and transforming data, merging and exporting data across files and platforms, and editing and printing statistical output.

IO 6309. Human Factors. 3 Semester Hours.
This course is a comprehensive and practical review of basic concepts in the integration of the human component into the design, development and evaluation of man-machine systems and sub-systems. It emphasizes the data and practices of human engineering (same as EG 6309).

IO 6363. Advanced Topics in Industrial/Organizational Psychology. 3 Semester Hours.
The purpose of this seminar is to cover special topics in psychology, utilizing faculty and community professionals (possessing appropriate certification and degrees). (When different topics are treated, PS 6363 may be repeated for additional credit upon approval of the graduate program director.)

IO 6366. Personnel Psychology. 3 Semester Hours.
The application of psychological theory and practices to human resources activities in organizations. Special emphasis is placed on job analysis and design, employee selection and placement, training and development, and performance management and appraisal. Legal and ethical considerations are underscored. Students will gain a working knowledge of the psychological principles in effective organizations.

IO 6369. Organizational Psychology. 3 Semester Hours.
This course is designed as a graduate-level introduction to classic and contemporary research literature in organizational psychology. The course objectives are to: 1) provide an overview of the literature (theory, empirical studies) in a sampling of major content areas, 2) develop research skills through critical review/analysis of organizational literature, and 3) stimulate ideas for original research projects.

IO 6370. Professional Development & Assessment Centers. 3 Semester Hours.
This course provides students with knowledge of current issues of professional development in Industrial-Organizational Psychology and the use of assessment centers in professional development. Assessment centers are widely used in industry for personnel development, training, and decision making. Students will participate in an assessment center process, receive developmental feedback about their performance, and write a personal development plan based on the feedback. Prerequisite: PS 6366.

IO 6371. Motivation and Human Behavior. 3 Semester Hours.
Theories and reports of empirical investigations.

IO 6381. Psychological Research. 3 Semester Hours.
Methodology and scientific inquiry in psychology. Experimentation, its relation to theory and design. Prerequisite: PS 6385.

IO 6383. Adv. Experimental Psychology. 3 Semester Hours.

IO 6385. Advanced Statistics I: Basic Descriptive and Inferential Analysis. 3 Semester Hours.
Advanced topics in statistics to include the analysis of variance, factor analysis, multiple discriminant analysis, multiple regression analysis and the use of statistical software to assist in these analyses.

IO 6386. Multivariate Statistics. 3 Semester Hours.
Topics in multivariate analysis with wide application in the behavioral and management sciences such as analysis of variance, analysis of covariance, multivariate analysis of variance, multivariate analysis of covariance, principal components, exploratory factor analysis, reliability analysis and discriminant function analysis. The course stresses theory, assumptions, and practical application of each technique. Students apply methods using SPSS and interpret results of analyses. Prerequisite: PS 6385.

IO 6387. Research. 3 Semester Hours.
Normal empirical projects designed to test a well formulated hypothesis. Other approaches may be considered. Required for thesis candidates. Prerequisites: PS 6381, PS 6385, and approval from Graduate Program Director.

IO 6388. Thesis. 3 Semester Hours.
The thesis is a complete documentation of an independent research project conducted by the student and supervised and approved by a thesis committee. The final report includes information related to the relevant theoretical background, research area, hypotheses, methods and procedures, results and interpretations, and discussion related to the significance of the results and application to the discipline.

IO 7185. Internship and Project in Personnel Psychology. 1 Semester Hour.

IO 7321. Advanced Tests and Measurements. 3 Semester Hours.
Advanced topics in psychological measurements to include: reliability and validity theory, criterion development, performance appraisal, test construction, and questionnaire development. Prerequisites: PS 6381, PS 6385.
IO 7361. Psychological Factors in Systems Management. 3 Semester Hours.
Human characteristics and their effect on systems management; psychological principles and innovations relative to selection, classification and placement; job analysis; job evaluation; performance evaluation; employee morale, working conditions, effects on personnel; human engineering and consumer psychology; communications.

IO 7363. Human Performance Assessment and Measurement. 3 Semester Hours.
Comprehensive and practical review of basic concepts in the integration of the human component into the design, development and evaluation of man-machine systems and subsystems: Human and computer performance capabilities, interface problems in man-machine systems; human factors theory and data applied toward effective systems management, design, operation, environment; personnel subsystems; workplace layout and arrangements; design for ease of maintenance; anthropometry; man-machine dynamics (same as EG 6309).

IO 7367. Methods in Industrial Psychology: Survey Development. 3 Semester Hours.
This course covers theories, methods, and procedures for conducting survey research in business. Topics include designing a survey instrument, planning a survey research study, and basic survey analysis techniques. Sampling issues will be addressed. Prerequisites: PS 6381, PS 6385.

IO 7368. Job Analysis. 3 Semester Hours.
In-depth review of major job analysis techniques. Quantitative data analysis will be stressed along with some examination of scaling and data display techniques.

IO 7381. Practicum in Experimental Psychology and Research Design. 3 Semester Hours.
Supervised practice in the design and execution of research in psychology. As a portion of the practicum, the student will plan, carry out research, and perform statistical and other analyses of results, all leading toward a publishable paper. Student may also act as laboratory instructor, planning research experiments, setting up equipment, supervising write ups of experiments and grading reports. Prerequisites: PS 6381, PS 6385, and permission of instructor.

IO 7383. Practicum in Quantitative Methods in Psychology. 3 Semester Hours.
Supervised practice in the selection and execution of statistical techniques appropriate to specific problem areas in psychology. The student will participate in data capture and reduction projects. The student may act as a tutor in the statistics laboratory as a means of enhancing his/her ability to communicate his/her knowledge of quantitative methods. Prerequisites: PS 6381, PS 6385, and permission of instructor.

IO 7385. Practicum in Personnel Psychology. 3 Semester Hours.
Supervised practice in research and/or application of psychological principles and innovations to selection, classification, and placement; job analysis; job evaluation; performance evaluation; employee morale; working conditions; human engineering and consumer psychology. The student may select certain of these topics for special emphasis. When feasible, on-the-job training in some business or industry may be recommended. May be repeated once for additional credit. Prerequisites: PS 6185, PS 6385, and approval from Graduate Program Director.