

SCHOOL of ARTS and SCIENCES

BUFFALO STATE $\boldsymbol{\cdot}$ The State University of New York

CLASS INFORMATION SHEET

Course Number: DSA 688

Semester: Spring 25 Schedule: Ongoing – see emails Instructor: Joaquin Carbonara PhD Office Hours: By appointment Phone: 716 878 6423 Course Name: EXPERIENTIAL LEARNING IN DATA SCI-ENCE AND ANALYTICS CRN: 3206 Mode: Ongoing during DSA MS Email: carbonjo@buffalostate.edu Office Location: SAMC 379

Course Description: Internship and team project (aka Professional Labs). In the internship, students participate in activities within an industry setting to solve real world data science problems and to learn how to be part of the real-world work environment. In the Professional Lab, students become part of a problem-solving team to learn how to solve real-world data science problem and learn typical roles in a data science team. Offered every semester.

Prerequisite Courses: Graduate standing in DSA MS

Enrollment Restrictions: Try to enroll in DSA 688 the last semester before graduating. Students can enroll in DSA 688, do the internship, and PLab at any time while enrolled in DSA.

Learning Outcomes for this Course: The student must acquire skills in all three areas below over to demonstrate acquisition and retention of understandings and competencies. Acceptable acquisition of required skills may be shown by successful accomplishment of appropriate learning outcomes stated below and by other measures as identified and assessed by faculty supervisor.

1. Communication Skills – students will demonstrate successful accomplishment of *all* of the learning outcomes in this category:

Oral Communication

Students will verbally express ideas clearly and persuasively with clients, supervisors and colleagues and will participate effectively in discussion.

Written Communication

Students will express ideas clearly and persuasively in writing as evidenced by acceptable student accomplishment of two or more of the following:

Student daily internship journal/log Student/faculty email communication Student description/rating of internship duties and internship supervisor Student internship report and oral presentation

2. Cognitive Skills – students will demonstrate successful accomplishment of *at least eight* of the learning outcomes in this category:

Using industry-specific terminology appropriately Showing understanding of industry customs and practices Acquiring and evaluating information Organizing and maintaining information Interpreting information Applying knowledge to the task Understanding and complying with legal regulations Serving clients and customers Negotiating and arriving at a decision Working with diversity Identifying, understanding and working with systems Improving and designing systems Working in cross-cultural and/or multi-national systems and projects Monitoring and correcting performance Selecting technology Using computers/technology to process information Maintaining and troubleshooting technology

3. Professional Skills – students will demonstrate successful accomplishment of *at least eight* learning outcomes in this category:

Exercising leadership Behaving professionally Behaving ethically Listening effectively Dressing appropriately Adapting effectively to changing conditions Participating as a member of a team Developing appropriate workplace attitudes Understanding and managing personal behavior and attitudes Developing individual responsibility

Course Format

Course Requirements: Required—Instruction permission

Brightspace: Students have access through Brightspace. Please see: http://3.230.252.179/Internship_instructions/DSA_688_Internship_Forms_Guide.html

Course Schedule: Self paced, based on the student Internship and PLab. Students MUST attend other networking meetings as communicated by email during the semester

Evaluation

Grades: The class is graded based on the completion of the Internship, PLab and Networking sessions.