

# **CIM 497 – CO-OP WORK EXPERIENCE I**

<b>COURSE NUMBER</b>	CIM 497
<b>COURSE TITLE</b>	Co-op Work Experience I
<b>COURSE STRUCTURE</b>	(0-0-3) (lecture hr/wk - lab hr/wk – course credits)
<b>COURSE DESCRIPTION</b>	This course is an opportunity for students to gain supervised, practical work experience in their particular field of interest within the concrete industry. Each student will be evaluated by his/her supervisor, and a final report and presentation will be submitted by the student detailing the internship experience.
<b>PREREQUISITE(S)</b>	All required 300-level courses
<b>COREQUISITE(S)</b>	None
<b>REQUIRED MATERIALS</b>	No textbooks required for this course
<b>INDUSTRY WEBSITES</b>	<a href="http://www.vsl.com">http://www.vsl.com</a> VSL Prestressing (Aust.) Pty Ltd <a href="http://www.apspt.com.au">http://www.apspt.com.au</a> Australian Prestressing Services <a href="http://www.raptsoftware.com/">http://www.raptsoftware.com/</a> RAPT Software <a href="http://www.nationalprecast.com.au">http://www.nationalprecast.com.au</a> National Precast Concrete Association Australia <a href="http://www.precastnz.org.nz">http://www.precastnz.org.nz</a> Precast New Zealand Inc. <a href="http://www.pci.org">http://www.pci.org</a> Precast/Prestressed Concrete Institute – USA <a href="http://www.precast.org">http://www.precast.org</a> National Precast Concrete Association - USA <a href="http://www.britishprecast.org">http://www.britishprecast.org</a> British Precast Concrete Federation <a href="http://www.cpci.ca">http://www.cpci.ca</a> Canadian Precast/Prestressed Concrete Institute <a href="http://www.cpi-tv.com">http://www.cpi-tv.com</a> Concrete Plant International – the Concrete channel
<b>COMPUTER USAGE</b>	Microsoft Word, Excel,PowerPoint
<b>STUDENT LEARNING OUTCOMES</b>	By the end of the course students are able to: <ol style="list-style-type: none"><li>1. Develop, design, and evaluate a concrete industry project plan approved by the industry sponsor.</li><li>2. Apply the project plan through applied work in an industry setting.</li><li>3. Apply critical thinking, research and communication skills.</li><li>4. Understand ethics, professionalism and lifelong learning in the concrete industry and how they are applied in projects.</li><li>5. Understand the interworking of a company in the concrete industry.</li><li>6. Understand the various employee roles, which may cover a number of aspects that include but are not limited to: environmental, finishing, production, sales, service, and construction.</li></ol>
<b>CLASS TOPICS</b>	Varies, depending on the type of Co-Op
<b>PROGRAM LEARNING OUTCOMES</b>	The Student Learning Outcomes support the achievement of the following CIM Program Learning Outcomes.  OUTCOME 1 - an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering/science problems appropriate to the discipline; (Relates to SLO 1-3)  OUTCOME 2 - an ability to apply built environment knowledge, project management skills and business acumen to meet specified needs for broadly-defined Concrete Industry problems. (Relates to SLO 1-6)

OUTCOME 3- an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature; (Relates to SLO 1-3)

OUTCOME 4 - an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes. (Relates to SLO 1- 3)

OUTCOME 5 - an ability to function effectively as a member as well as a leader on technical teams. (Relates to SLO 1- 6)

<b>ACADEMIC INTEGRITY</b>	NJIT has a zero-tolerance policy regarding cheating of any kind and student behavior that is disruptive to a learning environment. Any incidents will be immediately reported to the Dean of Students. In the cases the Honor Code violations are detected, the punishments range from a minimum of failure in the course plus disciplinary probation up to expulsion from NJIT with notations on students' permanent record. Avoid situations where honorable behavior could be misinterpreted. For more information on the honor code, go to <a href="http://www.njit.edu/academics/honorcode.php">http://www.njit.edu/academics/honorcode.php</a>
<b>MODIFICATION TO COURSE</b>	The Course Outline may be modified at the discretion of the instructor or in the event of extenuating circumstances. Students will be notified in class of any changes to the Course outline.
<b>PREPARED BY</b>	Dr. M. Mahgoub
<b>COURSE COORDINATED BY</b>	Dr. M. Mahgoub
<b>CLASS HOURS</b>	<b>N/A</b>
<b>OFFICE HOURS</b>	BY APPOINTMENT ONLY (FENSTER 222) <b>(973) 596-6081</b> or <b>mahgoub@njit.edu</b>

**COURSE OUTLINE**      DECIDED BY THE COMPANY