

## COURSE SYLLABI

<b>Course Number and Name</b>	<b>CE 371- Construction Engineering</b>
<b>Credits hours</b>	3 Credit hours
<b>Contact hours</b>	4 Contact hours;2 for lectureand2 for tutorial
<b>Instructor name</b>	Dr. Ali Almalki Eng. Mohammed Zaylaee
<b>Textbook</b>	R.L. Peurify and C. J. Schexnayder. "Construction Planning, Equipment, and Methods. 7th edition. McGraw Hill, 2006.
<b>Other supplemental materials</b>	NA
<b>Specific course information</b>	
<b>a. Catalog description</b>	This course deals with types, selection, utilization, and unit cost of construction equipment regarding soil compaction and stabilization, excavation and earthmoving operations. This course also deals with formworkdesign and cost estimation as well as project items.
<b>b. Prerequisite</b>	EngC 412 and EngC 414 (Reinforced Concrete 1)
<b>c. Required / Elective</b>	Required
<b>Specific goals for the course</b>	
<p>By the end of this course, the student will be able to:</p> <ol style="list-style-type: none"> <li>1. Learn the fundamental concepts of construction.</li> <li>2. Planning for earthwork construction.</li> <li>3. Estimating Production of Compaction Equipment</li> <li>4. Classification of Construction Project Items</li> <li>5. Estimating Production of Dozer.</li> <li>6. Estimating Production of Hoe.</li> <li>7. Estimating Production of Loader.</li> <li>8. Detailed Cost Estimation</li> <li>9. Design of the formwork slabs &amp; column.</li> <li>10. Estimating Forming cost</li> <li>11. Classification of different types of construction equipment.</li> <li>12. Calculations of Earthwork Quantities.</li> </ol>	

