



National Center for
Technological Literacy®
Museum of Science, Boston

ATLAS

Development of Model Lessons for Integrating ET Concepts and Skills in Elementary Education Programs/Course(s)

Name of Course	Student Teaching Practicum and Seminar
Concepts Presented	<ul style="list-style-type: none">• Define and differentiate between concepts: Science, Technology & Engineering• Recognize engineering and technology in our everyday lives.• Application of engineering concepts in pre-K classrooms
Materials Used	<ul style="list-style-type: none">• Notes & short power point• Handouts of Curious George Activity from PBS.org• Index cards• Rolls of scotch tape• Ruler• EiE Handouts
Pedagogy Emphasized	<ul style="list-style-type: none">• Inquiry Based Instruction
Student Classroom Activities	<ul style="list-style-type: none">• Find items in the classroom that represent engineering and technology, share in discussion.• Create a tower with index cards (Tower Power)• Begin development of a lesson plan for pre-K
Hours of Class Time	2
Hours of Preparation Time for Faculty	5

State/National ET Standards Addressed	<ul style="list-style-type: none"> • This will vary based on the lesson plan each student develops and implements in their classroom.
Integration/Collaboration with Other Departments/Faculty	<ul style="list-style-type: none"> • None for this initial workshop.
Student Assignments Related to Lesson	<ul style="list-style-type: none"> • The students are required to develop a lesson plan to implement at their placement site with pre-k students. They can use the plan we began in class or create their own.
Examples of Utilization by Students in Practicum	<ul style="list-style-type: none"> • This will be forwarded at a later date.
Alignment with Transfer Requirements of Four-Year Institutions	<ul style="list-style-type: none"> • The course these participants are enrolled in (EDU 213) is a required practicum course for early childhood education majors who plan to transfer.
Evaluation of Lesson(s)— Student Response and Faculty Comments	<ul style="list-style-type: none"> • Student Responses : <p>"I found it very interesting. We always talk about science and technology but when it comes down to actually planning an activity, it can be a challenge. I was able to see what each one of them means and examples of activities for each. I liked the fact that it was hands-on rather than a lecture. I thought it was going to be sitting down and taking notes."</p> <p>"The workshop was good now I do not feel like I am so confused. I found it really interesting especially since we really do use these things everyday"</p> <p>"This workshop helped me a lot. I tend to learn better hands on and this worked really well for me. I have come up with lots of ideas</p>

	<p>now I just have to test it first. Thank you it was very educational!!"</p> <ul style="list-style-type: none">• Faculty Response: I definitely needed more time for the class to develop a complete lesson plan for them to carry out in their classroom. Otherwise, the activities, pace and participation was great.
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