EECE416 :Microcomputer Fundamentals and Design ("Microcomputer & Microprocessor")

## **Intel Atom-based Course**

Fall 2011

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Before	After (from Fall 2011)
•68000 Motorola 16/32-bit	<ul> <li>Intel Atom-based curriculum</li></ul>
microcomputer architecture and	based on Intel gift of Atom-base
programming experiences	boards <li>Networked and media rich</li>
•PIC 16F877 8-bit	application is now possible <li>Emphasis 1: IA 32 and x86</li>
microcontroller for embedded-	Architecture as background
computing project – interfacing	information – MASM32 <li>Emphasis 2: Embedded SW</li>
with external world	Development and Debug Tools
•Drawbacks: Simple text based	(Application Environments) and
coding via a simulator for	Real Time Programming
Motorola and sensor-based I/O	(Hardware/Software) for Atom
handling for PIC	boards.















