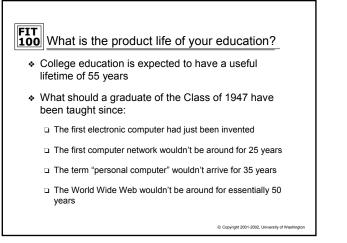
Welcome to FIT 100!				
Fluency with Information Technology				
CSE100 = INFO100 = FIT100				
Please pick up a syllabus				
Instructor:	Teaching Assistants:			
Grace Beauchane Whiteaker	Adam Carlson			
	Caro Crowley			
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FIT 100 What is the goal of FITness?

- To make you life-long learners of Information Technology. This is no small feat!
- * To give you the ability to adapt to unexpected situations involving technologies you know, and those you don't
- ✤ Fluency:
 - D The quality or state of flowing or being fluent
 - A smooth and easy flow
- * More than just computer literacy, fluency involves three kinds of knowledge:
 - □ Skills
 - Concepts
 - Capabilities

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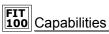
- * FIT 100 is designed to teach you fundamental skills, such as:
 - Email with Pine
 - Web browsing with Netscape or Internet Explorer
 - Web page creation and publication
 - Search and evaluation of information
 - □ Use of the Visual Basic programming language
 - □ MS Access and work with databases
- But technology changes faster than we can all keep up with, so in addition....

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FIT 100 Concepts

- FIT 100 is designed to teach you fundamental concepts that go beyond individual technologies:
 - How a computer works on the inside
 - Networks and other Information Systems
 - Digital representation of information
 - Programming and algorithmic thinking
 - □ Effective searching of Information Systems
 - Societal impact of Information and IT
- * But, to bring the concepts and skills together, you will need to work on...

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- ✤ FIT 100 is designed to enhance your core capabilities:
 - Engage in logical and sustained reasoning
 - Problem solving
 - Expecting the unexpected
 - Communication to others
 - Anticipation of changing technologies
 - Thinking about IT abstractly

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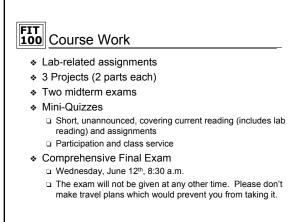
FIT Fluency with Information Technology * Projects are the key to this course. This class is mostly doing stuff, but it requires: Acquiring the skills to use the technology

- Combined with an understanding of the concepts behind the technology
- Rounded out by capabilities - reasoning, problem solving, etc.- - to complete the project successfully

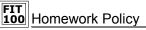
This class is not what you need to know about IT...it's what you need to know to learn what you need to know about IT

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FIT 100 When and	When	e			
 Lecture and Lab attendance is expected. 					
 If you don't attend every day, you will lose some credit opportunities 					
Lectures:					
M W F 9:30 am – 10:20 am MGH 389					
♦ Lab Sections					
Memorize your section ID!					
Attend the same section always					
Section AA	W, F	12:30 – 1:20	MGH 030		
Section AB	W, F	1:30 – 2:20	MGH 030		
Section AC	T, TH	8:30 - 9:20	MGH 030		
Section AD	T, TH	9:30 - 10:20	MGH 030		
Section AE	T, TH	1:30 - 2:20	MGH 030		
Section AF	T, TH	2:30 - 3:20	MGH 030 © Copyright 2001-2002, University of Washington		
			grouppinger zoor-zooz, University of Washington		



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 May be a combination of electronic and paper submissions

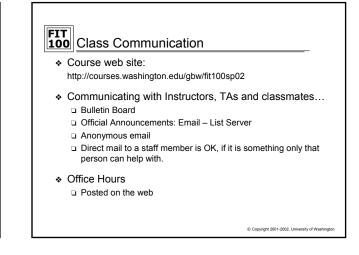
 Each project or assignment will have instructions for turning it in.

 You are allowed to turn in ONE project up to 1-day late

Once you have used your freebie, no other late projects will be accepted.

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FIT ExpectationsWhat are your responsibilities as a student in FIT100? What should be my responsibilities to you as a teacher? What are the TA responsibilities?



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FIT 100 Working with Others

Cooperation is important in many aspects of life

- A fellow student may be able to help you get unstuck, or explain something better than the instructor
- But: if you don't do you own work, you won't learn.
- Using someone else's work, without acknowledging it, is plagarism and is against the rules.
- Letting someone help you too much is against the rules.
- Letting someone copy your work is against the rules.
- * FIT100 staff will be alert for and will prosecute cases of inappropriate collaboration

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So, you ask yourself.... Is FIT 100 right for me?

* Fluency acquisition takes a significant amount of time in the lab

Not just the scheduled labs sessions, but above and beyond that.

- + 7-15 hours per week outside of Lecture and Labs
- Getting behind is costly
- Budget your time!
- However, students in previous classes thought.... □ FIT 100 was very valuable, even though it involved a lot of work □ FIT 100 expanded and brought precision to their thinking

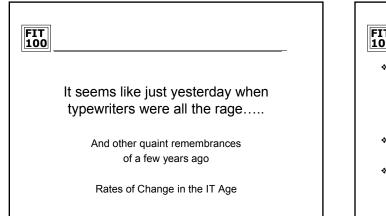
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FIT 100 Options to FIT 100 If you just want to learn one specific skill UWired and CAC offer classes on Web Pages, Databases, etc. If you are a "techie" or have significant experience with computers, plan on taking CSE 142 If you cannot make the time commitment this quarter □ FIT 100 (CSE/INFO 100) is offered every quarter

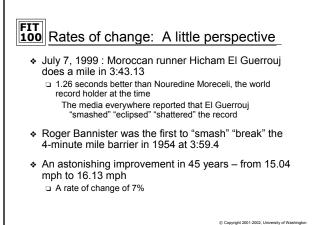


- There is one required text:
- "Fluency with Information Technology" by L. Snyder
- Available at Professional Copy & Print, 4200 University Way (corner of 42nd and The Ave)
- There are two optional, but highly recommended, texts. Both will be on reserve in the Odegaard Library:
 - Gamma "HTML for the World Wide Web" by E. Castro
 - Computer Programming Fundamentals with Applications in VB 6.0" by M. Kerman
- * We will supply eReserve material and the addresses of Web sites containing supplementary source material
- * We may require reading of handouts or web pages
- You will need some diskettes and a lab notebook

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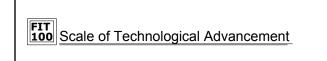


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Normal People & The Mile Run On average, people in their early 20's can run a mile in about 7:30, in other words, about twice the time it takes El Guerrouj This factor-of-2 difference between average people and world record holders is typical for physical activities like running, jumping, swimming, etc. No matter how hard we try, we can improve by at most a factor-of-2

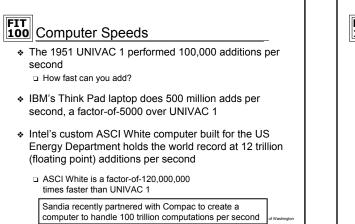
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- The Wright's Flyer 1 flew so slowly that one brother could run alongside as the other one piloted...a ground speed of 10 mph
- NASA states that the SR-71 Blackbird, a reconnaissance aircraft, flies at least 2200 mph

The Blackbird is faster than Flyer 1 by a factor-of-220 times or so...

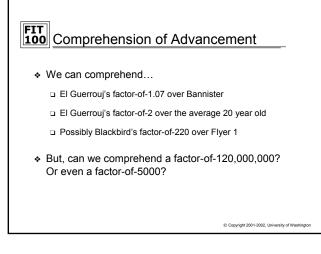
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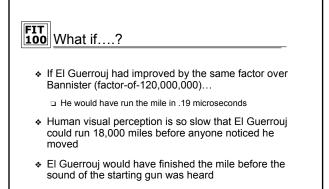




- Observed by Gordon Moore in 1965:
 - Microchip processor data storage capacities double every year to 18 months
- Most computers are underutilized and spend most of their time, even while being used, sitting idle.
- Chip density, and thus processing speed, will probably max out within 10 years
- How fast is fast enough? Do we have the capabilities to sense the difference?

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□ A feat that is, quite literally, incomprehensible

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FIT 100 Transparency?

Predictions

- Processing speeds will max out within 10 years
- Information processing with technology will be woven into our everyday lives, embedded into a variety of systems
 "ubiquitous computing"
- Our reliance on computers will increase
- Software "tools" to process information will be where our comprehension of computing power takes place
- Fluency in IT will help us stay aware and ahead of those changes we can comprehend

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FIT 100 Changes that IT brings

- Nowhere is Remote
 Or is everywhere remote?
- World Connectivity
- Changes in the Human Idea of Relationships
- English as a Universal Language
- Freedom of Speech and Assembly

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Figure Processing for Wednesday a feasing for Wednesday b for sylabus c ourse packet chapters – which ones? Find out on the Web Project 0 b for dirt... you know where 1 for our on't have a UW computer account b fost Computing and Communications in MGH or go to their website: www.washington.edu/computing and obtain one