

Five Pilots, One Plane ~~X~~

Developing the course that delivers the AP Principles content!

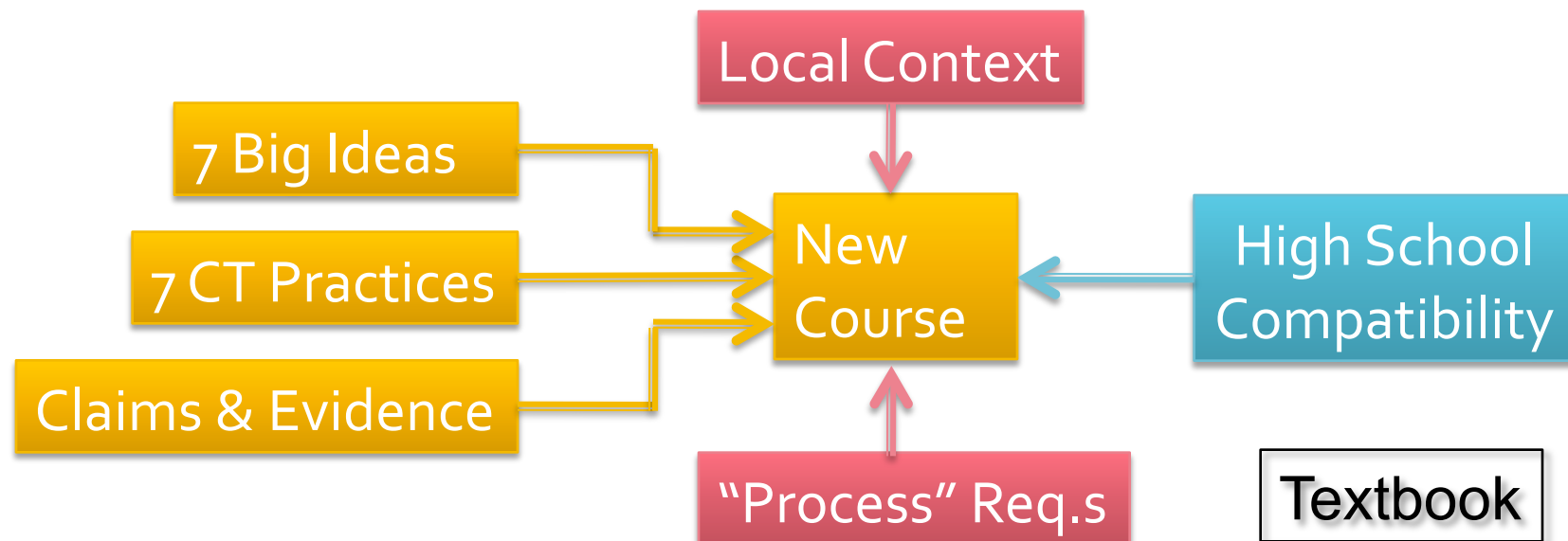
The Task ...

- The Commission and the Advisory Committee have specified the content in broad strokes
- The Pilot's task is to express it in the fine detail of a college class ... Rothko to Seurat



The Constraints

- Designing the CS Principles curriculum is not as easy as the last course you designed ...



Five Campuses, Five Teachers

The pilot schools and instructors ...

- Metropolitan State College, Denver: [Jody Paul](#)
- UC Berkeley: [Dan Garcia](#)
- UC San Diego: [Beth Simon](#)
- UNC at Charlotte: [Tiffany Barnes](#)
- U Washington: [Larry Snyder](#)

The teachers were chosen from among the Commission and Advisory Committee Members

Cross-Campus Comparison I


	Title	First Offering	Proj Enroll
MSCD	Living in a Computing World	Fall (S) 2010	20
UC B	The Beauty and Joy of Computing	Fall (S) 2010	90
UC SD	Fluency with Information Technology	Fall (Q) 2010	900
UNCC	The Magic of Computing	Spring (S) 2011	30
UW	Computer Science Principles	Winter (Q) 2011	40

Cross-Campus Comparison II

	Programming Language	Lec	Lab	Dis	Wks	Total Contact
MSCD	Scratch, HTML/CSS	4	0	0	15	60
UC B	BYOB Scratch	2	4	1	14	98
UC SD	Alice, Excel	3	2	0	10	50
UNC C	Alice, possibly others	3	0	0	15	45
UW	Processing, Python	3	2	0	10	50

Recruiting ...

- All pilots need a recruiting plan ...



Sure, you know a million apps ... do you know any computer science?

Computer Science is the study of computation built on fascinating (and beautiful!) principles. Computer science concepts apply in many fields: graphics, art & design, math, knowledge representation, engineering, biology, markets, and many more. *Use the power of computing in your career!*

New Course	CSE190S: COMPUTER SCIENCE PRINCIPLES
	The Department of Computer Science and Engineering (CSE) will offer a new course in Winter Quarter 2011 titled: COMPUTER SCIENCE PRINCIPLES. The course is designed for non-majors and covers fundamental concepts of computer science that are essential knowledge for a well educated person living in the 21st century.
	CS Principles fulfills the Quantitative and Symbolic Reasoning (QSR) requirement.
Apply! Apply for Admission	-- Limited Enrollment -- First Offering (Pilot): Winter 2011

CSE190S at UW I

- All pilots have a different academic goal
- UW's goal for CS Principles course:
 - Teach those essential CS principles that educated people need to know in the 21st century
- Goal for Fluency w/ Information Technology:
 - Teach the essential computing knowledge needed to be an effective computer user throughout life
- Comparison of goals, briefly –
 - CS P: teach key concepts of phenomenon of computing
 - Fluency: teach key concepts to be a lifelong power user

CSE190S at UW II

- Computer Science Principles

- Developed with H el ene Martin

- CS Teacher, Garfield High, Seattle

- Prolific Ed Blogger: <http://www.helenemartin.com/>



- **Heavy** emphasis on activities

- “Active and engaging” for students in late teens

- Some possibility of spanning the “50 vs 140” mismatch

- Has the “tell me, show me, engage me” advantage

- Essential to driving #1 big idea: Computing is Creative

- Allows for high degree of “currency”



Cool, No? We Need Your Approval

- College Board (not pilots) needs your approval
- Two part approval
 - Winter 2011: Content Survey
 - Departments are sent Claims and Evidence (content) and asked to look it over – give your comments
 - Spring 2011: Endorsement Survey
 - Say if your department will give credit or placement to successful test takers of AP CS Principles Exam

Return A Letter To CB saying ...

... my college's perspective on CS:P & the Exam...

- It is a introductory college-level experience, exceeding traditional high-school or developmental experiences
- We intend to offer credit for students who succeed on CS:P
- (a) We intend to offer a course comparable in content /purpose to AP CS:P by Fall 2014 and/or
(b) We will place students earning a successful score on the AP CS:P Exam into the sequent computing course
- (optional) We are willing to be listed on CB's website as supporting college credit and placement for the CS:P Exam

Summary – We Need Your Help

This is a once-in-a-career chance to spread CS Principles widely

- Follow the UW course development:
 - <http://csprinciples.cs.washington.edu/uwpilot>
- Find more on CS Principles Pilots at
 - <http://csprinciples.cs.washington.edu> ← Rally Support Site
 - <http://csprinciples.org> ← Official Site