Increase Student Success with a Transformed Class Schedule



Robert Bramucci, Ph.D., Vice-Chancellor, Technology and Learning Services Jim Gaston, Director, IT – Academic Systems

Agenda

- About Us
- Project Goals
- SmartSchedule Background
- Demonstration
- Next Steps How You Can Get Involved

About Us

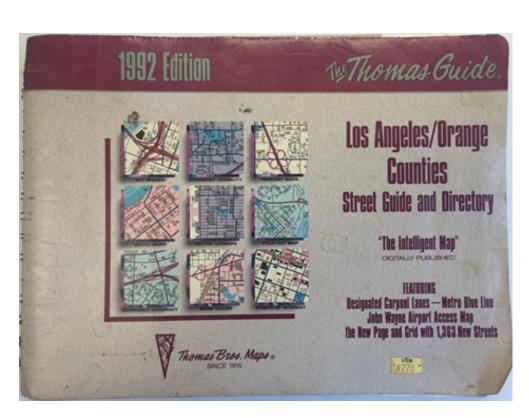
About the SOCCCD

- Two-college district in southern California
- Approximately 43,000 students/term (23,000 FTES)

Two Colleges, Three Campuses

- Saddleback College in Mission Viejo
- Irvine Valley College in Irvine
- Advanced Technology and Education Park (ATEP) in Tustin

SmartSchedule Goal







SmartSchedule Background

Class schedule was the first web application we built in 1995. IDML program ran on a VAX and generated a set of HTML files each night.



Irvine Valley College



DR 100 FUNDAMENTALS OF MECHANICAL DRAFTING

Introduces the design process, the proper use of drafting instruments, lettering, geometric construction, multiview projection, pictorial drawings, ANSI and ISO dimensioning. Course fee of \$12.00 payable at registration.

Ticket	Weeks	From	То	Time	Days	Instructor	Location
60995A	16.6	24-Aug-98	19-Dec-98	04:00PM-07:00	M W	Collins, D	B 363

DR 101 MECHANICAL DRAFTING

Develops the basic skills required to produce industrial quality assembly and detail drawings. Includes basic design processes used for machine drawings, castings, cams, weldments, and power transmissions, with integrated problems and solutions.

Course fee of \$12.00 payable at registration.

Ticket	Weeks	From	То	Time	Days	Instructor	Location
60995D	16.6	24-Aug-98	19-Dec-98	04:00PM-07:00	M W	Collins, D	B 363

DR 102 MECHANICAL DRAFTING AND DESIGN

Develops the basic skills needed for industrial-level mechanical drawing and conceptual design. Course fee of \$12.00 payable at registration.

Ticket		Weeks	From	То	Time	Days	Instructor	Location
[90070	16.6	24-Aug-98	19-Dec-98	TBA	TBA	Collins, D	TBA

DR 150 INTRODUCTION TO COMPUTER-AIDED DRAFTING

An introductory computer-aided drafting (CAD) course for all applications. Students use the CAD system to create and analyze 2-D and pictorial drawings conforming to ANSI standards. Course fee of \$12.00 payable at registration.

Ticket	Weeks	From	То	Time	Days	Instructor	Location
61000A	16.6	24-Aug-98	19-Dec-98	12:30PM-03:30	T Th	Collins, D	B 363
61005	16.6	24-Aug-98	19-Dec-98	07:00PM-10:00	M W	Collins, D	B 363

AUTO105

AUTOMOTIVE POWER TRAIN

3 Units - 2 hours lecture 2 hours lab

Prerequisite: None Limitation: None Corequisite: None

Recommended Preparation: AUTO 100

Course Description: Operating principles and overhaul and repair procedures of automotive power trains including clutches, three- and four- speed synchromesh transmissions, overdrives, drive line, differentials, and rear axles. Demonstrated lectures and practical experience in the laboratory on power train components. Outside assignments are required. (R-E)

Other Information

- Typical Assignments
- Topics Covered
- Learning Objectives
- · Methods of Evaluation

Upgraded to SmartSchedule in July 2002

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			<u>Class Status</u> Last Up	dated at: 7/6/2016 2:30 PN	1			
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Ticket	Day	Time	Instructor	Location	Status 🗓			
20910	classes me M W	9:30AM - 10:45	12/18/2016: ∃⊠ M. ROMERO &	LRC 104	Open	Details	book info	add to cart
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19010	M W	11:00AM - 12:15	∃⊠ M. ROMERO 🏖	BGS 134	Open	<u>Details</u>	book info	add to cart
4 X	VID This co	urse uses AVID learning s	trategies.					
19030	M W	3:30PM - 4:45	∃⊠ M. ROMERO 🏖	BGS 134	Open	<u>Details</u>	book info	add to cart
ч <u>Х</u>	VID This co	urse uses AVID learning s	trategies.					
19005	T Th	8:00AM - 9:15	Ξ⊠ C. GHANBARPOUR 🏖	<u>BGS 134</u>	Open	<u>Details</u>	book info	add to cart
_		eet from 9/12/2016 to						0.5.11
19205	TBA		∃⊠ J. SEAMAN 🧟	INTERNET (Off Campus)	Open	<u>Details</u>	book info	add to cart
			ake this quiz: <u>http://www.saddle</u> <u>ass-tips</u> , and course access instru					
ne following	classes me	eet from 8/22/2016 to	10/16/2016:					
19210	TBA		∃⊠ C. GHANBARPOUR 🏖	INTERNET (Off Campus)	Open	<u>Details</u>	book info	add to cart
► Is a htt	an online cla p://www.sa	ass right for you? Please t ddleback.edu/oe/online-cl	ake this quiz: <u>http://www.saddle</u> <u>ass-tips</u> , and course access instru	<u>back.edu/de/DEquiz.</u> ıctions at <u>http://wwv</u>	<u>html</u> . See class tips v.saddleback.edu/de	for online educations /student-technical	on at -support/.	
ne following	classes me	eet from 10/17/2016 to						
19215	TBA		∃⊠ C. GHANBARPOUR 🧟	INTERNET (Off Campus)	Open	<u>Details</u>	book info	add to cart
<u>htt</u>	p://www.sa		ake this quiz: http://www.saddle ass-tips, and course access instru	ıctions at <u>http://www</u>		/student-technical	-support/.	
19220	TBA		∃⊠ J. SEAMAN 🧟	INTERNET (Off Campus)	Open	<u>Details</u>	book info	add to cart
			ake this quiz: http://www.saddle ass-tips, and course access instru					

Units: 3

Survey of major themes and events in world history from 1500 to the present

Shopping Cart added in Fall 2004



Received the State Chancellor's Office Technology Focus Award in 2005



SOCCCD Student Success Systems



MAP



Sherpa



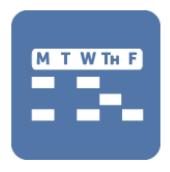
Predictive Analytics



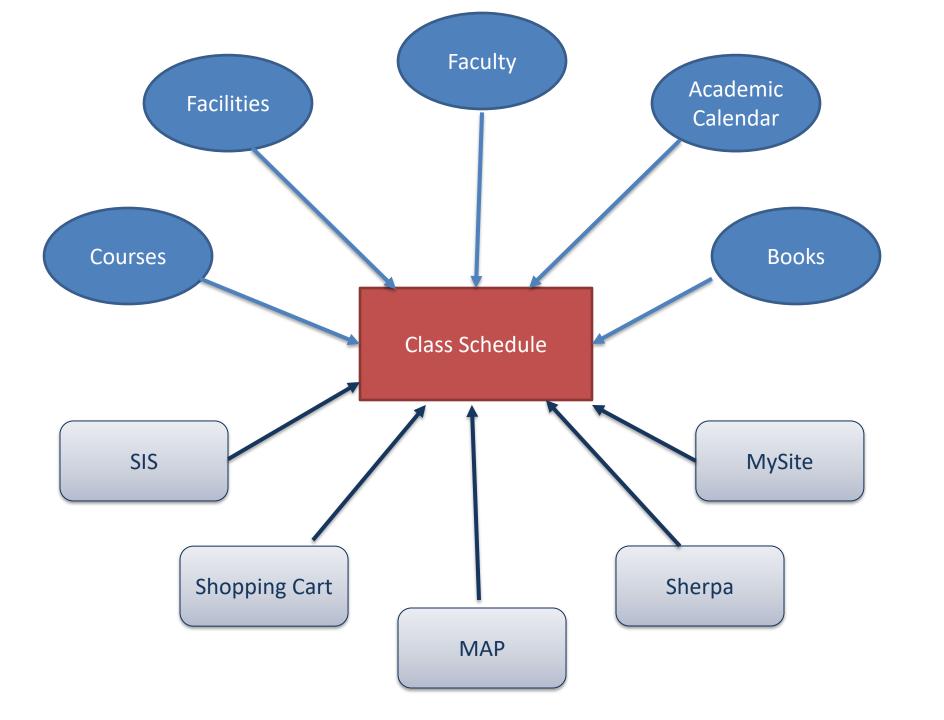
Student Success
Dashboard



Progress Report (Early Alert)

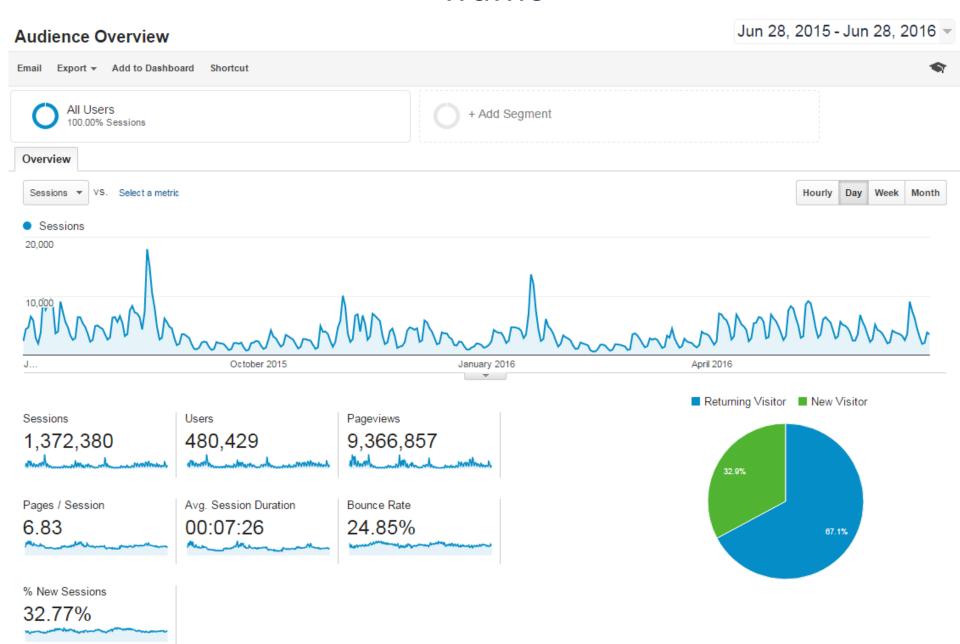


SmartSchedule



Design Considerations

Traffic



Performance

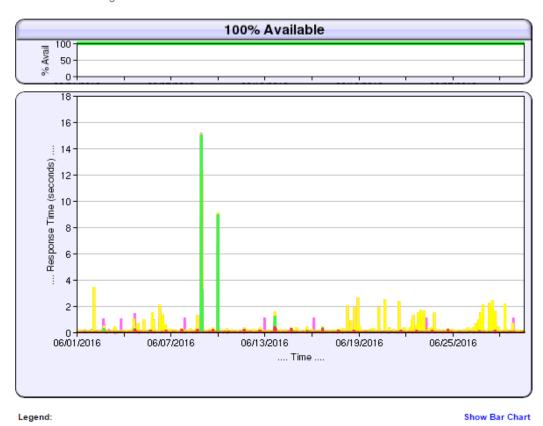
Site Name: SmartSchedule Page Customer: South Orange County CC District

DNS Lookup Connect Redirect First Byte Content

Locations: Los Angeles

From: 2016-06-01 00:00

Thru: 2016-06-29 13:11



Trans	action Load A	Analysis						
	Response	DNS	Connect	Redirect	<u>FirstByte</u>	Content	DOM Load	Page Load
Avg	0.1379	0.0105	0.0175	0.0000	0.1060	0.0037	0.3414	0.3486
Min	0.0580	0.0000	0.0105	0.0000	0.0461	0.0000	0.1368	0.1408
Max	15.1763	0.4424	15.0423	0.0000	13.4641	1.0046	21.7174	21.7254
STD	0.3919	0.0220	0.2525	0.0000	0.2719	0.0422	0.6057	0.6062

Mobile

		1,372,380 % of Total: 100.00% (1,372,380)	1,372,380 % of Total: 100.00% (1,372,380)
1.	■ Windows	626,934	45.68%
2.	■ Macintosh	337,715	24.61%
3.	■iOS	313,624	22.85%
4.	Android	79,837	5.82%
5.	■ Chrome OS	9,894	0.72%
6.	Linux	2,896	0.21%
7.	■ Windows Phone	1,153	0.08%
8.	■ BlackBerry	221	0.02%
9.	(not set)	58	0.00%
10.	■ Xbox	23	0.00%

Search

In the last year there were 271,610 searches in SmartSchedule, averaging 744/day.

Туре	Success	Fail	Fail %
Simple	58,884	24,195	29%
Advanced	139,126	49,405	26%
Total	198,010	73,600	27%

Successful Searches



Unsuccessful Searches



Choice Architecture

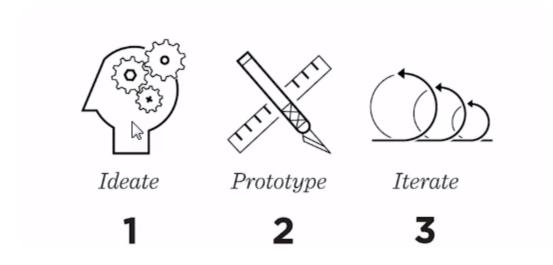
- Index vs. Search
- Summary vs. Detail
- Generic vs. Customized
- Aggregation
- Terminology
- Sorting
- The Power of the Default



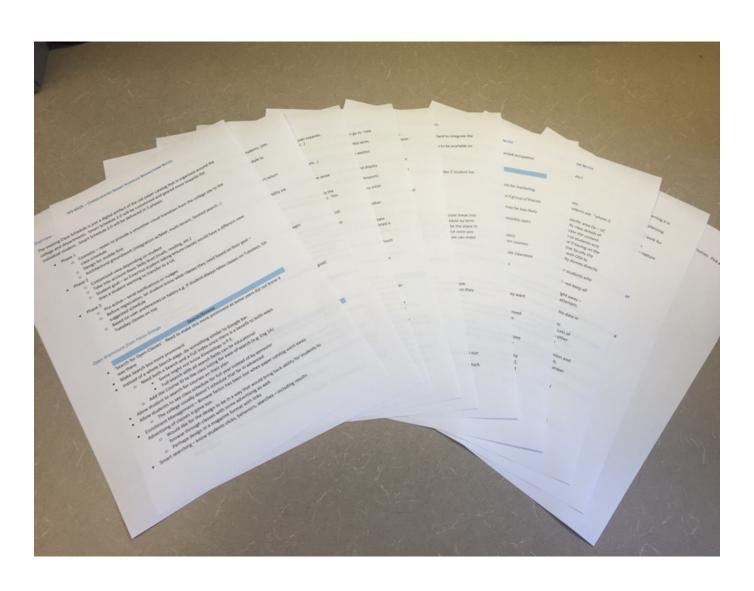
Why is this important?



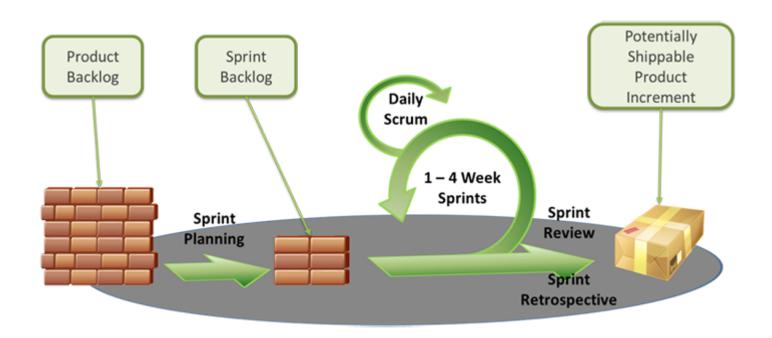
Design Process



Faculty/Staff Brainstorming Sessions



Development Process



What do the students need?



Student Review of Class Schedules

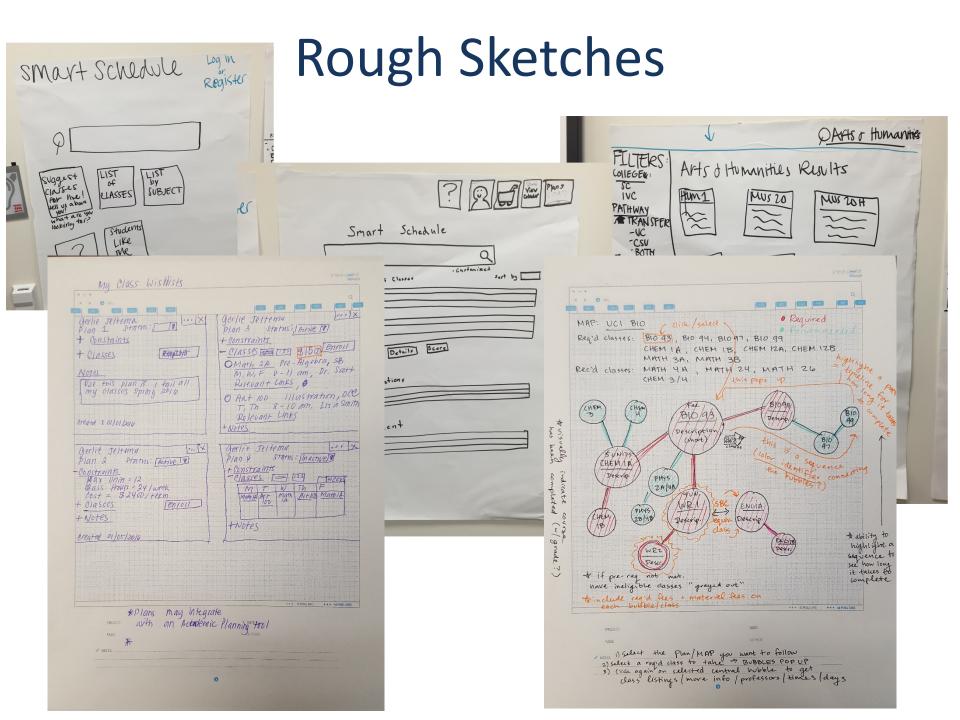
4	A B	C	D	Е	F	G	Н	I	
Dat	te Started V Evaluator	▼ College	▼ Schedule ▼	Functional Rating	Functionality Comments	UI Ratin	UI comments 🔻	Total Score	e 🔽 Con
2	6/15/2015 SaraÃ- J. SantamarÃ-a	♦	https://webreg.mpc.edu/SR ScheduleOfClasses.	10	It was very clear how to register for courses. Course information included transferability and recommended preparation. There is a book link beside each course.	10	I really enjoyed exploring the different methods for searching/viewing courses. My favorite was probably the Tree View. Students can select a term, then the first letter of the discipline, and then see courses listed under that discipline.	20	This one surp
	0/15/2015 SalidA- J. SalitamarA-a	wonterey Peninsula Conege	nttps://webreg.mpc.edu/sk_scrieduleOrclasses.	10	beside each course.	10	the class schedule is interactive with book info, and ada (american	20	as I
					the class schedule was on the home page. once you clicked on that there were sub catagories w/ eening, late, online, sat classes for each semester.		diabilities act) tells you that the class can access a wheelchair. I liked how the info is broken down in different colors		
	3/27/2015 Melissa Boomer	City College of San Francisico	www.ccsf.edu	10	Ir was easy to find an open class and understand.	10	as well.	20	
					link to class schedule o home page. very easy to find. Once you click on class schedule, there is content page, you can click on which sememster you are intersted in as well as final eaxam dates/times and archived schedules. very		easy to use, find classes and navigate. Included in description was a book link. Long class description with		
	3/27/2015 Melissa Boomer	American River College	www.arc.losrios.edu	9	functional and easy to use.	10	prereq, info.	19	
	6/4/2015 Ryan Mathis	Antelope Valley College	http://www.avc.edu/information/schedule/	9	The class schedule system ran smoothly and there were no problems finding classes.	10	AVC has a great class schedule system that is straight forward and easy to use.	19	l w
	6/8/2015 Ryan Mathis	Berkley City College	https://passport2.peralta.edu/psp/EPAPROD/EM	9	This is the most fluid system I have seen yet. It operates smoothly, was easy to find, and provides me with classes every time I search.	10	Incredibly easy to understand, awesome icon legend system: indicates waitlist/closed/open status of classes. I didn't even need to choose a class for a sustainable search, just the semester selected returned every class for that semester.	19	Wh
	y of 2015 Adul Methis	derived the configer	incps, y passivor caperanta. edu y psp/ cPAPROD/EW	,	me with udoses every unitersedium.	10	Extremely easy to use. Very helpful legend that a untrained person can easily understand. If I just wanted to see all the classes for the fall, that was possible by filling out only one field. Two different search buttons: one for	15	VI
	6/11/2015 Ryan Mathis	Cañada College	https://webschedule.smccd.edu/default.php	10	I had zero problems with the functionality. I think it is the best class schedule search system I have seen so far. The search engine was really fast. An 'expand class listing length' button was also helpful. Also an advanced search tab has been implemented for more narrow searching.	9	'all' classes' and the other for 'open' classes, allowing for a quick and informative way to view classes. Very intuitive. The only reason I gave it a 9 was because the URL given above was semi-difficult to find.	19	Fro is ca Ca

Student Design Team Retreat



Breakout Sessions





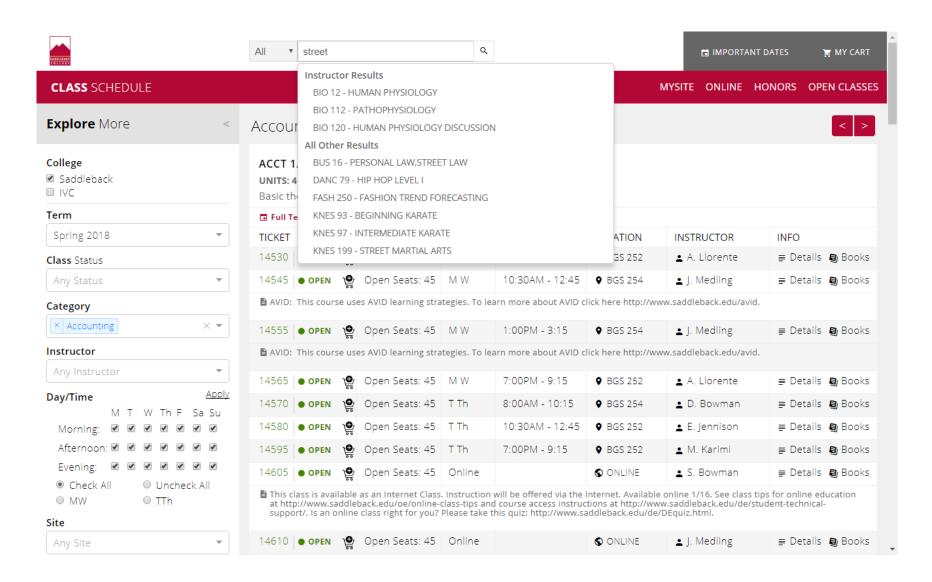
Persona Based Design

- Olivia the Overachiever
- Uri the Undecided
- Abby the Adult Learner
- Ed the Emeritus Student
- Ivan the International Student
- Harry the High School Student

SmartSchedule Phases

- Phase 1 Complete
 - UX upgrade
 - College branding
 - Mobile responsive
 - Architectural Foundation for Phase 2
- Phase 2 Complete
 - Entirely new infrastructure
 - User Interface Enhancements
 - Allow colleges to easily change aggregation using index groups
 - Improved shopping cart
 - Global search with auto-suggest
 - Faceted search results with immediate refresh
- Phase 3 Going Live February 2019
 - New Landing Page
 - Schedule Builder with proactive recommendations from MAP

Phases 1 and 2 Demo



Infrastructure

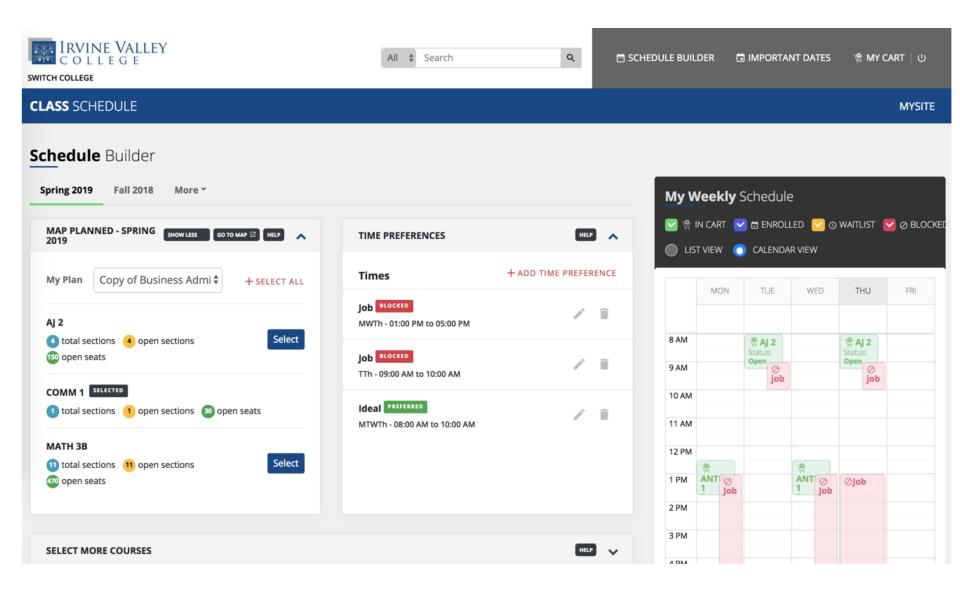




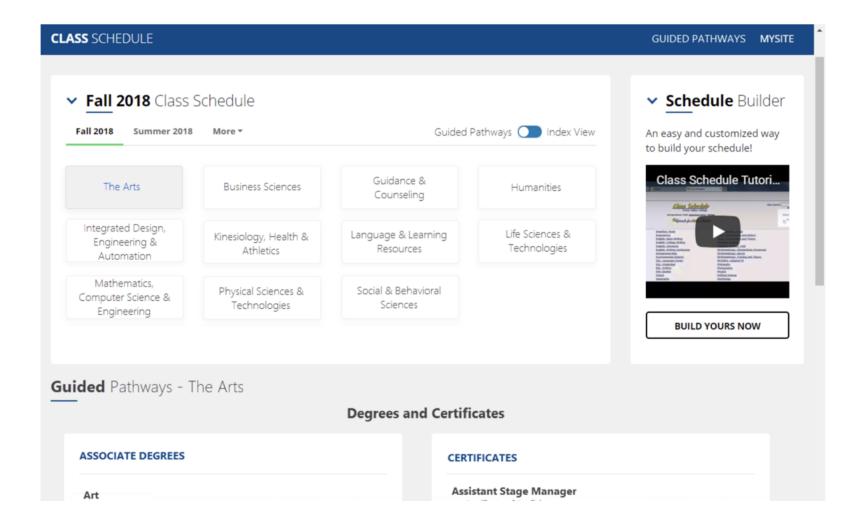
AWS Global Infrastructure



Phase 3 Demo



Guided Pathways





What's Next?

- Complete Phase 3 (February 2019)
- Scale Up for Other Colleges

Questions?



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