

Mapping Out Student Success on the Academic High-Way

ARUCC 2012



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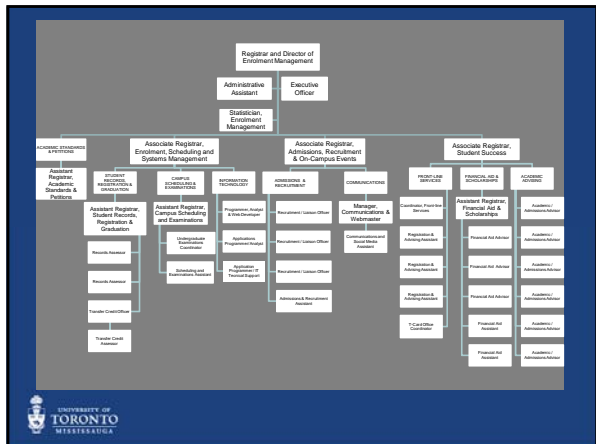
Overview

- A little about UTM
- Goals for "My Academic Plan for Success" (MAPS)
- Tools that power MAPS
- MAPS!
- Challenges and Roadblocks
- Future plans
- Q&A



- Established in 1967, UTM is UofT's second largest division – home to 12,000 undergraduate students, over 400 graduate students, and 700 faculty and staff
- 33 km west of the St. George campus, situated along the Credit River on 225 acres of protected green belt
- HBA, HBS, BCom, BBA, BEd, MA, MSc, MBioTech, MMPA, MMI, MScBMC, DIFA, PhD





Major Program Requirements

- Students applying for the award of a B.Sc. degree must complete a minimum of 120 credit hours, including a minimum of 24 credit hours in the major program.

General Education

- Students applying for the award of a B.Sc. degree must complete a minimum of 24 credit hours in the general education program.

Course List: CHEM 101, CHEM 102, CHEM 103, CHEM 104, CHEM 105, CHEM 106, CHEM 107, CHEM 108, CHEM 109, CHEM 110, CHEM 111, CHEM 112, CHEM 113, CHEM 114, CHEM 115, CHEM 116, CHEM 117, CHEM 118, CHEM 119, CHEM 120, CHEM 121, CHEM 122, CHEM 123, CHEM 124, CHEM 125, CHEM 126, CHEM 127, CHEM 128, CHEM 129, CHEM 130, CHEM 131, CHEM 132, CHEM 133, CHEM 134, CHEM 135, CHEM 136, CHEM 137, CHEM 138, CHEM 139, CHEM 140, CHEM 141, CHEM 142, CHEM 143, CHEM 144, CHEM 145, CHEM 146, CHEM 147, CHEM 148, CHEM 149, CHEM 150, CHEM 151, CHEM 152, CHEM 153, CHEM 154, CHEM 155, CHEM 156, CHEM 157, CHEM 158, CHEM 159, CHEM 160, CHEM 161, CHEM 162, CHEM 163, CHEM 164, CHEM 165, CHEM 166, CHEM 167, CHEM 168, CHEM 169, CHEM 170, CHEM 171, CHEM 172, CHEM 173, CHEM 174, CHEM 175, CHEM 176, CHEM 177, CHEM 178, CHEM 179, CHEM 180, CHEM 181, CHEM 182, CHEM 183, CHEM 184, CHEM 185, CHEM 186, CHEM 187, CHEM 188, CHEM 189, CHEM 190, CHEM 191, CHEM 192, CHEM 193, CHEM 194, CHEM 195, CHEM 196, CHEM 197, CHEM 198, CHEM 199, CHEM 200.

MATH

- MATH 1A
- MATH 1B
- MATH 2A
- MATH 2B

Degree Planning (On Paper)

My Academic Plan In Progress

00 Level 200 Level 300 Level 400 Level

[Empty table for course planning]

Degree Requirements Checklist

[Checklist table with columns for requirements and completion status]

Please contact your advisor for more information.

My Academic Plan for Success (MAPS)

- Provide one place where students can be informed about degree requirements, course requisites and how these factor into their academic career.
- Allow students to plan academic paths in a guided and accuracy enforced way to help them reach their degree sooner.
- Show students all relevant information about their progress and warn them of any factors which may get in the way.
- Use the generated data on students intended plans to predict required class sizes and improve timetabling.



My Academic Plan for Success (MAPS)

- Built on top of existing internal systems
 - Student information system
 - Student assessment module
 - Program entry checking
 - Prerequisite checking
- Designed to sit in front of these systems and be powered by them.
- This allows a lot of flexibility.



ROSI

```
***** Student Information System *****
Apr 12, 88                               11:17 AM
-----
Code System
-----
1. Manage Resources (M)
2. Manage Person (M)
3. Manage Admission (M)
4. Student Records and Registration (M)
5. Support Graduation (M)
6. Academic Rules (M)
7. Student Accounts Receivable (M)
8. Maintain System Reference Tables (M)
9. Manage Awards and Financial Support (M)
10. Divisional Reports (M)
7. Help
. Terminate
-----
Code: _____
Direct Command:
Enter: PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
help retrn quit      F1PF      TAPP
```



SAMI

DEGREE REQUEST POST	ER HBA - Honours Bachelor of Arts - Candidacy Session - 2012/3	Incomplete									
SPONSOR	Historical Studies										
LAST SESSION'S CGPA	CGPA	1.80									
		20121									
SPECIALIST MAJOR / MINOR	POST CD	TITLE	REQ SECS	REQ BY	BY	DATE					
	ERMA0161	MA HISTORY OF BELGIUMS	20055	/	/	/					
CURRENT COURSES											
COURSE	TITLE	SESS	MARKS	GRADE	EXCL	CRED	HUM (Ss)	Se	REQ	BY	DATE
CLAS47HS	Alexander the Great	20121	80	C-		0.50	Y			/	
ERS103HS	Devil & Public Issues	20119	86	D		0.50		Y		/	
HS261HS	Intro to Canadian History	20121	59	D+		0.50				/	
HS302HS	Jam & Muslims in the Balkans	20119	71	B		0.50	Y			/	
HS310HS	Women Since 1800	20121	66	D		0.50	Y			/	
HS493HS	Advanced Topics in Global Hist	20121	92	D-		0.50	Y			/	
HLG312HS	Method & Theory in Hs of Rel	20121	63	C		0.50	Y		negative/DP	2012-03-23 16:16:29	



How Rules are Written

Condition Examples

- CCT202HS OR PSY270HS
- CCT202HS OR PSY270HS OR PSY280HS AND CCT205HS
- PSL206HS OR PSL42J
- CRED(S) >= 8.0
- 3.0 credits from (CCT%, VCC%, HSC%, HGD%, PHIL%, PSY%, LVN%, CSC%)
- BORN >= 2.0
- HEDS140(13%)
- PSY270HS before 1999
- PSY270HS after 1999
- PSY270HS between 1995 and 2006

RULE EXAMPLES

- COND1
- COND1 AND COND2
- COND1 AND (COND2 OR COND3)

Subject POB: ERSP1888 Computer Science (Science) (20123)

COND	RULE
COND1	3.00
COND2	COND1 USE CTRCHAM AND MARK<=80
COND3	COND1 USE MAT1207Y AND MARK<=80
COND4	COND1 USE MAT1207Y AND MARK<=80 OR COND2 USE MAT1207Y AND MARK<=80 OR COND3 USE MAT1207Y AND MARK<=80



Program Entry Assessment

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SECS	MARKS	GRADE	EXCL	CRED	HUM (Ss)	Se	REQ	BY	DATE
1									



Prerequisite Check

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Pre/Co-requisite Checking | Subject Pool Checking | Admin Options | Logout

Course: CSC258H5

CALENDAR PREREQUISITE: CSC146H1, MAT155H1

COND1:	CSC146H1
COND2:	MAT155H1
COMBINED RULE:	COND1 AND COND2
Last updated by:	jsyvette on 2011-12-13 13:13:24

[Edit Pre-Requisite conditions and rule]

CALENDAR COREQUISITE: None

COND1:	None
COND2:	None
COMBINED RULE:	None

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Sometimes Tricky

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COND1:	IEG210G
COND2:	1.5 Credits from PHYS1
COND3:	PHYS108
COND4:	1.0 Credit from PHYS108
COND5:	1.5 Credit from PHYS107, PHYS107A, PHYS107B, PHYS107C, PHYS107D, PHYS107E, PHYS107F, PHYS107G, PHYS107H, PHYS107I, PHYS107J, PHYS107K, PHYS107L, PHYS107M, PHYS107N, PHYS107O, PHYS107P, PHYS107Q, PHYS107R, PHYS107S, PHYS107T, PHYS107U, PHYS107V, PHYS107W, PHYS107X, PHYS107Y, PHYS107Z
COND6:	1.5 Credit from PHYS107, PHYS107A, PHYS107B, PHYS107C, PHYS107D, PHYS107E, PHYS107F, PHYS107G, PHYS107H, PHYS107I, PHYS107J, PHYS107K, PHYS107L, PHYS107M, PHYS107N, PHYS107O, PHYS107P, PHYS107Q, PHYS107R, PHYS107S, PHYS107T, PHYS107U, PHYS107V, PHYS107W, PHYS107X, PHYS107Y, PHYS107Z
COND7:	1.5 Credit from PHYS107, PHYS107A, PHYS107B, PHYS107C, PHYS107D, PHYS107E, PHYS107F, PHYS107G, PHYS107H, PHYS107I, PHYS107J, PHYS107K, PHYS107L, PHYS107M, PHYS107N, PHYS107O, PHYS107P, PHYS107Q, PHYS107R, PHYS107S, PHYS107T, PHYS107U, PHYS107V, PHYS107W, PHYS107X, PHYS107Y, PHYS107Z
COND8:	1.5 Credit from PHYS107, PHYS107A, PHYS107B, PHYS107C, PHYS107D, PHYS107E, PHYS107F, PHYS107G, PHYS107H, PHYS107I, PHYS107J, PHYS107K, PHYS107L, PHYS107M, PHYS107N, PHYS107O, PHYS107P, PHYS107Q, PHYS107R, PHYS107S, PHYS107T, PHYS107U, PHYS107V, PHYS107W, PHYS107X, PHYS107Y, PHYS107Z
COND9:	
COMBINED RULE:	COND1 AND COND2 AND COND3 AND COND4 AND COND5 OR COND6 OR COND7
Notes:	
Subject:	

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UNIVERSITY OF TORONTO MISSISSAUGA

My Academic Plan for Success (MAPS)

Student Number: 1234567890
Name: John Smith
Email: john.smith@utoronto.ca

Course	1st Year	2nd Year	3rd Year	4th Year
PHYS108	PHYS108 (1.0)	PHYS108 (1.0)	PHYS108 (1.0)	PHYS108 (1.0)
PHYS107	PHYS107 (1.0)	PHYS107 (1.0)	PHYS107 (1.0)	PHYS107 (1.0)
PHYS107A	PHYS107A (1.0)	PHYS107A (1.0)	PHYS107A (1.0)	PHYS107A (1.0)
PHYS107B	PHYS107B (1.0)	PHYS107B (1.0)	PHYS107B (1.0)	PHYS107B (1.0)
PHYS107C	PHYS107C (1.0)	PHYS107C (1.0)	PHYS107C (1.0)	PHYS107C (1.0)
PHYS107D	PHYS107D (1.0)	PHYS107D (1.0)	PHYS107D (1.0)	PHYS107D (1.0)
PHYS107E	PHYS107E (1.0)	PHYS107E (1.0)	PHYS107E (1.0)	PHYS107E (1.0)
PHYS107F	PHYS107F (1.0)	PHYS107F (1.0)	PHYS107F (1.0)	PHYS107F (1.0)
PHYS107G	PHYS107G (1.0)	PHYS107G (1.0)	PHYS107G (1.0)	PHYS107G (1.0)
PHYS107H	PHYS107H (1.0)	PHYS107H (1.0)	PHYS107H (1.0)	PHYS107H (1.0)
PHYS107I	PHYS107I (1.0)	PHYS107I (1.0)	PHYS107I (1.0)	PHYS107I (1.0)
PHYS107J	PHYS107J (1.0)	PHYS107J (1.0)	PHYS107J (1.0)	PHYS107J (1.0)
PHYS107K	PHYS107K (1.0)	PHYS107K (1.0)	PHYS107K (1.0)	PHYS107K (1.0)
PHYS107L	PHYS107L (1.0)	PHYS107L (1.0)	PHYS107L (1.0)	PHYS107L (1.0)
PHYS107M	PHYS107M (1.0)	PHYS107M (1.0)	PHYS107M (1.0)	PHYS107M (1.0)
PHYS107N	PHYS107N (1.0)	PHYS107N (1.0)	PHYS107N (1.0)	PHYS107N (1.0)
PHYS107O	PHYS107O (1.0)	PHYS107O (1.0)	PHYS107O (1.0)	PHYS107O (1.0)
PHYS107P	PHYS107P (1.0)	PHYS107P (1.0)	PHYS107P (1.0)	PHYS107P (1.0)
PHYS107Q	PHYS107Q (1.0)	PHYS107Q (1.0)	PHYS107Q (1.0)	PHYS107Q (1.0)
PHYS107R	PHYS107R (1.0)	PHYS107R (1.0)	PHYS107R (1.0)	PHYS107R (1.0)
PHYS107S	PHYS107S (1.0)	PHYS107S (1.0)	PHYS107S (1.0)	PHYS107S (1.0)
PHYS107T	PHYS107T (1.0)	PHYS107T (1.0)	PHYS107T (1.0)	PHYS107T (1.0)
PHYS107U	PHYS107U (1.0)	PHYS107U (1.0)	PHYS107U (1.0)	PHYS107U (1.0)
PHYS107V	PHYS107V (1.0)	PHYS107V (1.0)	PHYS107V (1.0)	PHYS107V (1.0)
PHYS107W	PHYS107W (1.0)	PHYS107W (1.0)	PHYS107W (1.0)	PHYS107W (1.0)
PHYS107X	PHYS107X (1.0)	PHYS107X (1.0)	PHYS107X (1.0)	PHYS107X (1.0)
PHYS107Y	PHYS107Y (1.0)	PHYS107Y (1.0)	PHYS107Y (1.0)	PHYS107Y (1.0)
PHYS107Z	PHYS107Z (1.0)	PHYS107Z (1.0)	PHYS107Z (1.0)	PHYS107Z (1.0)

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UNIVERSITY OF TORONTO
My Academic Plan for Success (MAPS)

Student Number: 1234567890
Name: John Smith
Email: John.Smith@utoronto.ca

	1st Year	2nd Year	3rd Year	4th Year
Program	SCS100Y1	SCS200Y1	SCS300Y1	SCS400Y1
Introduction (1st, 2, & 3 sem.)	SCS100Y1 Schem. 91.1.2010A	SCS200Y1 Schem. 91.2.2010A	SCS300Y1 Schem. 91.3.2010A	SCS400Y1 Schem. 91.4.2010A
Intermediate (4th sem.)		SCS200Y2 Schem. 91.1.2010B	SCS300Y2 Schem. 91.2.2010B	SCS400Y2 Schem. 91.3.2010B
Advanced and Honours			SCS300Y3 Schem. 91.1.2010C	SCS400Y3 Schem. 91.2.2010C
Specialized Honours				SCS400Y4 Schem. 91.1.2010D
Options				
Distribution				
All Courses				

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Program	SCS100Y1	SCS200Y1	SCS300Y1	SCS400Y1
Introduction (1st, 2, & 3 sem.)	SCS100Y1 Schem. 91.1.2010A	SCS200Y1 Schem. 91.2.2010A	SCS300Y1 Schem. 91.3.2010A	SCS400Y1 Schem. 91.4.2010A
Intermediate (4th sem.)		SCS200Y2 Schem. 91.1.2010B	SCS300Y2 Schem. 91.2.2010B	SCS400Y2 Schem. 91.3.2010B
Advanced and Honours			SCS300Y3 Schem. 91.1.2010C	SCS400Y3 Schem. 91.2.2010C
Specialized Honours				SCS400Y4 Schem. 91.1.2010D
Options				
Distribution				
All Courses				

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1st Year

SCS100Y1

	1st Year	2nd Year	3rd Year	4th Year
Program	SCS100Y1	SCS200Y1	SCS300Y1	SCS400Y1
Introduction (1st, 2, & 3 sem.)	SCS100Y1 Schem. 91.1.2010A	SCS200Y1 Schem. 91.2.2010A	SCS300Y1 Schem. 91.3.2010A	SCS400Y1 Schem. 91.4.2010A
Intermediate (4th sem.)		SCS200Y2 Schem. 91.1.2010B	SCS300Y2 Schem. 91.2.2010B	SCS400Y2 Schem. 91.3.2010B
Advanced and Honours			SCS300Y3 Schem. 91.1.2010C	SCS400Y3 Schem. 91.2.2010C
Specialized Honours				SCS400Y4 Schem. 91.1.2010D
Options				
Distribution				
All Courses				

UNIVERSITY OF TORONTO MISSISSAUGA

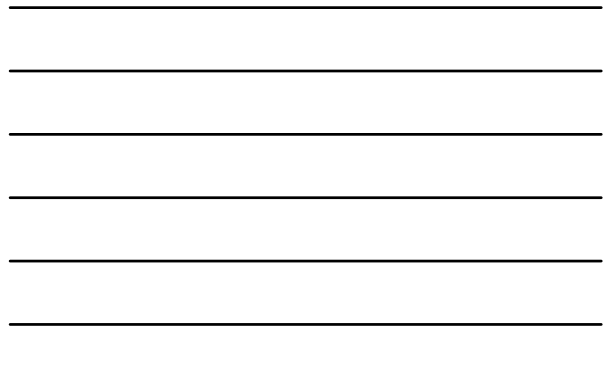
My Academic Plan for Success (MAPS)

Student Number: 1234567890
Name: John Smith
Email: john.smith@utoronto.ca

Course:

1st Year	2nd Year	3rd Year	4th Year
BIOL1000 BIOLOGY Credit: 3.00	BIOL2000 BIOLOGY Credit: 3.00	BIOL3000 BIOLOGY Credit: 3.00	BIOL4000 BIOLOGY Credit: 3.00
PHYS1000 PHYSICS Credit: 3.00	PHYS2000 PHYSICS Credit: 3.00	PHYS3000 PHYSICS Credit: 3.00	PHYS4000 PHYSICS Credit: 3.00
STAT1000 STATISTICS Credit: 3.00	STAT2000 STATISTICS Credit: 3.00	STAT3000 STATISTICS Credit: 3.00	STAT4000 STATISTICS Credit: 3.00
MATH1000 MATHEMATICS Credit: 3.00	MATH2000 MATHEMATICS Credit: 3.00	MATH3000 MATHEMATICS Credit: 3.00	MATH4000 MATHEMATICS Credit: 3.00

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Name: John Smith
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Course:

1st Year	2nd Year	3rd Year	4th Year
BIOL1000 BIOLOGY Credit: 3.00	BIOL2000 BIOLOGY Credit: 3.00	BIOL3000 BIOLOGY Credit: 3.00	BIOL4000 BIOLOGY Credit: 3.00
PHYS1000 PHYSICS Credit: 3.00	PHYS2000 PHYSICS Credit: 3.00	PHYS3000 PHYSICS Credit: 3.00	PHYS4000 PHYSICS Credit: 3.00
STAT1000 STATISTICS Credit: 3.00	STAT2000 STATISTICS Credit: 3.00	STAT3000 STATISTICS Credit: 3.00	STAT4000 STATISTICS Credit: 3.00
MATH1000 MATHEMATICS Credit: 3.00	MATH2000 MATHEMATICS Credit: 3.00	MATH3000 MATHEMATICS Credit: 3.00	MATH4000 MATHEMATICS Credit: 3.00
ENGG1000 ENGINEERING Credit: 3.00	ENGG2000 ENGINEERING Credit: 3.00	ENGG3000 ENGINEERING Credit: 3.00	ENGG4000 ENGINEERING Credit: 3.00

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Name: John Smith
Email: john.smith@utoronto.ca

Course:

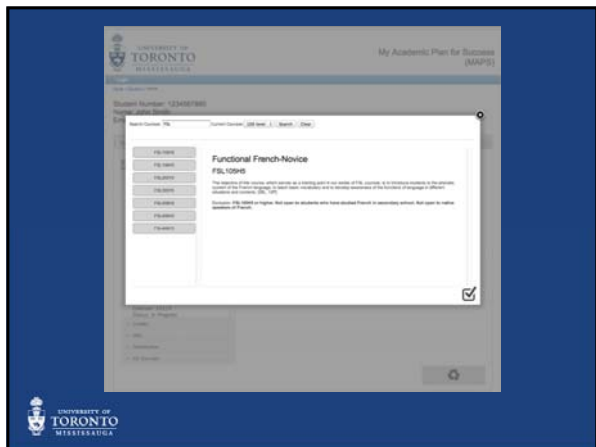
1st Year	2nd Year	3rd Year	4th Year
BIOL1000 BIOLOGY Credit: 3.00	BIOL2000 BIOLOGY Credit: 3.00	BIOL3000 BIOLOGY Credit: 3.00	BIOL4000 BIOLOGY Credit: 3.00
PHYS1000 PHYSICS Credit: 3.00	PHYS2000 PHYSICS Credit: 3.00	PHYS3000 PHYSICS Credit: 3.00	PHYS4000 PHYSICS Credit: 3.00
STAT1000 STATISTICS Credit: 3.00	STAT2000 STATISTICS Credit: 3.00	STAT3000 STATISTICS Credit: 3.00	STAT4000 STATISTICS Credit: 3.00
MATH1000 MATHEMATICS Credit: 3.00	MATH2000 MATHEMATICS Credit: 3.00	MATH3000 MATHEMATICS Credit: 3.00	MATH4000 MATHEMATICS Credit: 3.00
ENGG1000 ENGINEERING Credit: 3.00	ENGG2000 ENGINEERING Credit: 3.00	ENGG3000 ENGINEERING Credit: 3.00	ENGG4000 ENGINEERING Credit: 3.00

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My Academic Plan for Success (MAPS)

Student Number: 1234567890
Name: John Smith
Email: John.Smith@utoronto.ca

	2012 enrol	2013 enrol	2014 enrol	2015 enrol
Program	PHIL1004	PHI1004		
Section	Section 04 (2012)	Section 04 (2013)		
Prerequisite	PHIL1004	PHI1004		
Section	Section 04 (2012)	Section 04 (2013)		
Prerequisite	PHI1004	PHI1004		
Section	Section 04 (2012)	Section 04 (2013)		

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Student Number: 1234567890
Name: John Smith
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	2012 enrol	2013 enrol	2014 enrol	2015 enrol
Program	PHIL1004	PHI1004		
Section	Section 04 (2012)	Section 04 (2013)		
Prerequisite	PHIL1004	PHI1004		
Section	Section 04 (2012)	Section 04 (2013)		
Prerequisite	PHI1004	PHI1004		
Section	Section 04 (2012)	Section 04 (2013)		

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Benefits

For students:

- Visually track progress for students
- Early warning system

For the university:

- Course enrolment projection and planning
- System of accountability

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Challenges and Roadblocks

- Rule systems are difficult to maintain, accuracy is everything.
- Calendars change every year. Must provide calendars for at least 5 years back in order to accommodate 92% of students! And 9 years back for 99%!



Implementation Timeline

- Forever.
 - Student information systems change.
 - Methods of gathering information change.
 - Students' methods of consuming content will change.

MAPS is a logical next step for Institutions to provide a safe, error reducing method for understanding course selection and making better informed decisions that will cause students to be more successful.



Next Steps

- Store rules and ensure accuracy
- Release internally
- Release to first year students
- Release to the rest of the students.
- Go mobile
- Recruitment tool



Questions?

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