How Purdue University has Benefited from the Use of UniTime and Open Source Practices



Stephanie Schluttenhofer





Benefits

- Adaptability from Open Source Processes and Dialogue
- Availability of UniTime Data for Planning
- Cost Savings from Better Planning
- Ease of UniTime Integration with Other Systems
- Result: Improved Performance in the Fundamental University Mission - Educating the Students





Adaptability

Open Source Processes Encourage Dialogue and Innovation





Adaptability

My Observations of Traditional Software Vendors:

- Users learn the software
- Users use the software
- Users report bugs
- Unless critical, users wait for bug fixes
- Users request additional features
- Users wait for upgrades, often years
- Users are disengaged
- Traditional software becomes stale





Adaptability

My Observations of Open Source:

- Users learn the software
- Users ask, "Could the software do X?"
- Open source community says, "X is a great idea, with the data from X it can do Y?"
- Users get excited and ask, "Could it do Z as well?"
- The changes are implemented quickly
- Users are engaged
- Developers are engaged
- Engagement leads to more adaptability





Advisor Recommendation Form

Users Asked:

- Can UniTime replace the paper Student Course Requests form Advisors use to advise their students?
- Can it be saved as a PDF as proof of the advising conversation?
- Can the students access it in UniTime?

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Adaptability - Case Study Advisor Recommendation Form

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The student information header on the form was new, no old code to re-use.

Idea: The advisor could use the form to enable the student for registration.



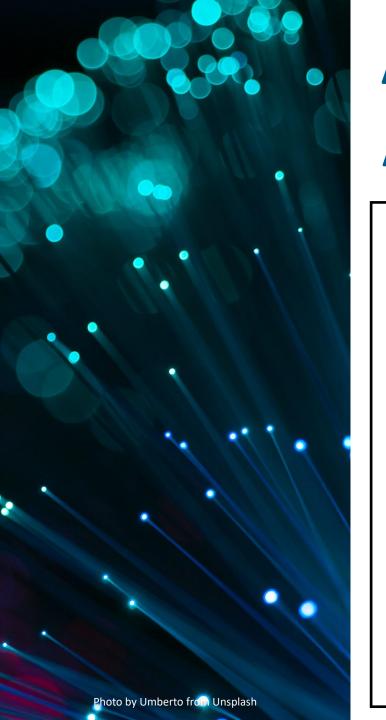


Advisor Recommendation Form

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The Student Course Requests page uses similar data to paper form. Use this as a starting point.

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Adaptability - Case Study

Advisor Recommendation Form

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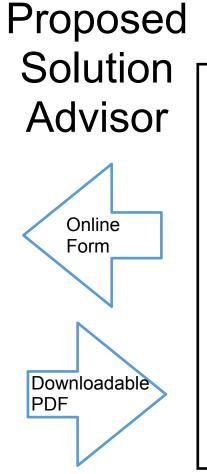
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Advisor Recommendation Form

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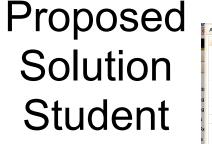


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Advisor Recommendation Form



Display Form In Pop-up

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2. Priority	ENGL 10600	First-Year Composition	3 - 4		
	SCLA 10100	Crit Think & Com I			
3. Priority	CHM 11100	General Chemistry	3		
	EAPS 10500	The Planets			
4. Priority	PSY 12000	Elementary Psychology	3		
5. Priority	GER 10100	German Level I	3		
I. Substitute	SOC 10000	Intro Sociology	3		
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				July 13 at 5:00 PM ET - Deadline to submit your Course Request Form (CRF) - After this date you will be locked out of the system and cannot make any changes until open registration.	
				July 21 by 5:00 PM ET - Your schedule will be viewable in myPurdue You are encouraged to review at this time and anticipate any changes you wish to make during Open Registration.	
				July 26 - Open Registration begins. Stop. Do not make changes without the recommendation of your academic advisor.	sto nile
				Your time ticket for open registration changes can be found here: myPurdue>Registration Tab>Registration Status & Time Ticket.	
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Advisor Recommendation Form

Additional Solution Idea for Student

Pre-Populate Course Requests

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Advisor Recommendation Form

Less than 3 months from idea to implementation

- Project requested on December 19, 2019
- Multiple rounds of feedback
- Advisors Tested / Trained in February 2020
- In Production on March 14, 2020





Advisor Recommendation Form

Phenomenally High Usage Among Advisors

- COVID hit
 - Advising went online
 - The form facilitated online communication
- Advisors are engaged
 - Regularly suggest improvements
 - Suggestions are often implemented
 - Suggestions are often expanded upon
- Fall 2022 Used for all but 50 continuing students



Advisor Recommendation Form

Watch my Lightning Talk to see the Advisor Recommendation Form in Action:

Streamlining Student Advising - The UniTime Advisor Recommendation Form





Data for Planning

UniTime has Useful Data for Planning





Data for Planning - Short Term

Curricula Data, Enrollment Data, Student Requests

This UniTime Data Helps Users Predict:

- Courses that have joint demand. make sure these don't conflict
- Which courses are expected to have increased demand. offer more seats
- Which courses are expected to have decreased demand. offer fewer seats





Data for Planning - Short Term

Weekly Student Contact Hours, Weekly Hours of Facility Usage

Allow UniTime to Help Users Predict:

- The types of rooms a department needs for their classes
- The number of rooms a department needs for their classes





Data for Planning - Long Term

Weekly Student Contact Hours, Weekly Hours of Facility Usage

Allow UniTime to Help Users Predict:

- The types of classrooms / labs / etc. that need to be built in the future.
- The timeframe in which new classrooms / labs / etc. need to come online.
- Where on campus new classrooms / labs / etc. should be built.





Data for Planning - Very Long Term

Course Demand + Room Utilization in Simulations

Purdue has used UniTime to run simulations of the long term future.

- Put together its dream student body for 10 years into the future.
- UniTime projected this onto the current student body to generate course demands of this future dream student body.
- Users familiar with Purdue's programs then took their best guess at how the growth / shrinkage of demand for courses would be handled.



Data for Planning - Very Long Term

Course Demand + Room Utilization in Simulations

A Simulated Course Timetable was Created.

- Added course sections where determined
- Increased course section size where determined
- Shrank courses where determined
- Removed rooms in buildings slated to be torn down
- Added rooms expected to be built
- Added rooms that weren't planned but were needed to schedule all classes in the simulated timetable.
- Simulated future students were scheduled to the timetable to ensure it was a usable timetable





Data for Planning - Very Long Term

Course Demand + Room Utilization in Simulations

The Simulated Course Timetable was Analyzed

- Which departments would need additional staff to support their growth
- Which departments could be expected to shrink
- Whether planned rooms matched what was needed





Cost Savings

Improved Planning leads to Cost Savings





Cost Savings

Purdue

Purdue benefits from cost savings thanks to better planning

- Offering the right classes, at the right capacity, at the right time
- Knowing where to focus resources in faculty hiring
- Knowing what types of spaces to build and where
- Knowing what types of spaces <u>not</u> to build

All of the above can lead to cost savings by avoiding wasteful spending on unneeded resources.





Cost Savings

Students

Students benefit from better planning

- Improved planning interactions with their advisors
- Able to get the courses they need to graduate on time
- Cost savings are passed on to the student





Integration

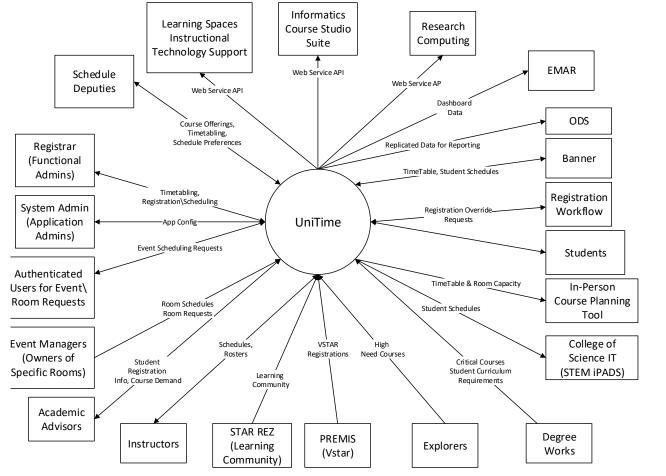
UniTime's Open Source Foundations Allow for Easy Integration





Integration

Purdue has Integrated UniTime with Many Systems



Updated 9/30/20

apereo



Benefit: Improved Performance

Improved Performance in the Fundamental University Mission of Educating the Students





Benefit: Improved Performance

Fundamental University Mission of Educating the Students

To get an education students must be able to get the courses they need.

- Improved hand off of advising information encourages student to stay on track to meet their goals.
- Improved planning allows Purdue to do a better job of meeting student needs in a more affordable manor.





Benefit: Improved Performance

Fundamental University Mission of Educating the Students

Additionally, UniTime is geared toward getting students the courses they need.

- UniTime provides tools to allow Purdue and other institutions to see when they are not meeting a student's needs.
- Identifying the individual students affected by poor course planning encourages better course planning.
 - Has this made Purdue perfect at meeting student needs? No, far from it.
 - Does Purdue have the tools needed to improve? Yes!
 - Is Purdue striving to improve? Yes!





Conclusion

Open source practices have encouraged engagement with UniTime that has benefitted Purdue





Conclusion

- Adaptability from Open Source Processes and Dialogue
- Availability of UniTime Data for Planning
- Cost Savings from Better Planning
- Ease of UniTime Integration with Other Systems
- Result: Improving Performance in the Fundamental University Mission - Educating the Students



UniTime Resources

- Website: www.unitime.org
- Online Demo: <u>demo.unitime.org</u>
- Manuals: <u>bit.ly/unitime46docs</u> (or Help > Manuals in the app)
- Online Help: <u>help.unitime.org</u>
- Research Publications: <u>www.unitime.org/publications.php</u>
- Presentations: <u>www.unitime.org/presentations.php</u>
- Webinars: <u>www.unitime.org/webinars.php</u>
- GitHub: github.com/UniTime
- Downloads & Nightly Builds: <u>builds.unitime.org</u>
- Twitter: @UniTimeOrg
- Email: <u>team@unitime.org</u>

Join the Conversation

Website: <u>https://www.unitime.org</u> Email: team@unitime.org

Photo by Christina from Unsplash

Thank You!



Stephanie Schluttenhofer <u>says@purdue.edu</u> / <u>says@unitime.org</u> Purdue University / UniTime LLC

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- "book lot on shelf" by <u>Sylvia Yang from Unsplash</u>
- "green bokeh lights" by <u>Umberto from Unsplash</u>
- "Lights Keyboard Macro" by <u>Pexels from Pixabay</u>
- "teal chairs" by <u>Ross Sneddon from Unsplash</u>
- "white electric post" by <u>Black Zhang from Unsplash</u>
- "black swivel chair beside rectangular brown wooden desk" by <u>Changbok Ko from Unsplash</u>
- "two women sitting beside table and talking" by <u>Christina at wocintechchat dot com from Unsplash</u>

