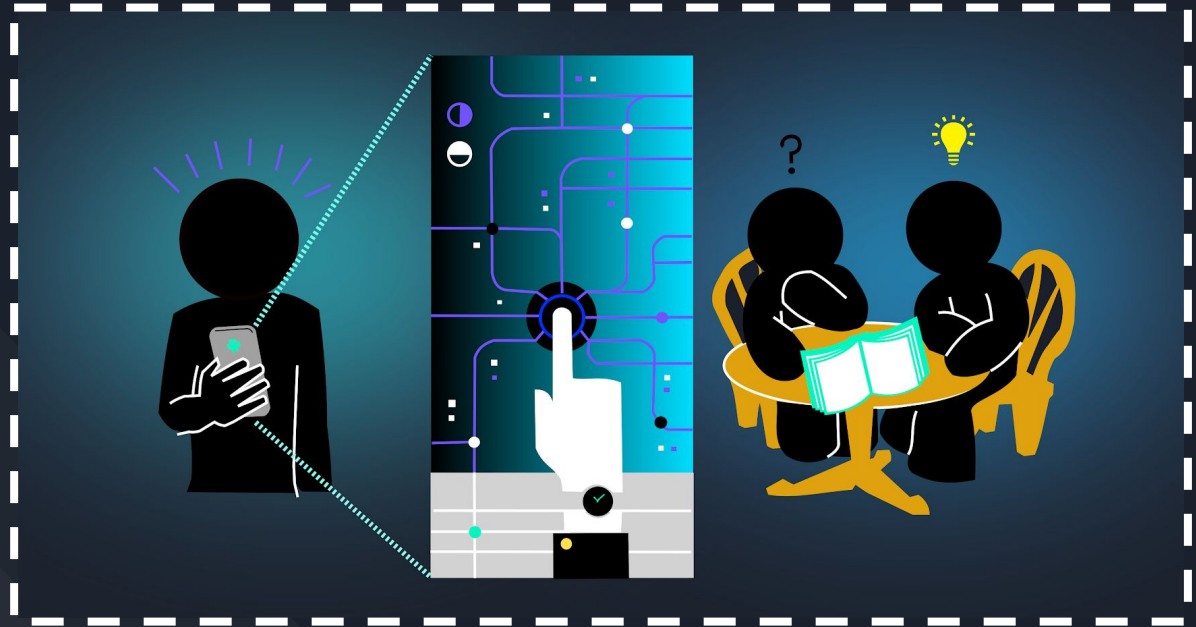


UniTaught

Find a tutor. Be a tutor.



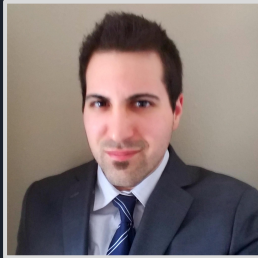
Old Dominion University
CS410 - Team Gold
Spring 2019
March 19, 2019



Presentation Overview

1. Team	3
2. Background	4 - 7
3. Problem	8 - 11
4. Solution	12 - 17
5. Customers & End-Users	18 - 19
6. Benefits	20
7. Competition	21 - 22
8. Conclusion	23 - 24
9. References	25 - 28

The Team



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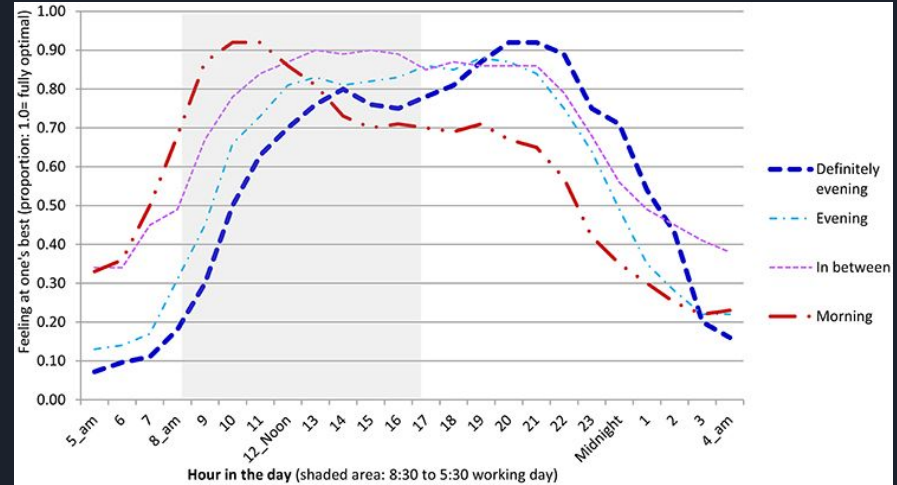
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Dwight Owings
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University Students and Tutoring

- University students study at no specific time of the day.
- Some studies even suggest that **more students study at night as opposed to daytime.**



Distribution of university students' study times

The Private Tutoring Market

- Private tutoring is a growing industry.
- However, there is no centralized network for tutors.
- Most tutor-hosting websites offer online options, and some offer in-person options.





University Students & Tutoring

- **Student-to-student interactions are effective**; tutees learn more cognitively through bonds with their peers.
- PAL is a peer mediated instructional program where students tutor their peers.
- Peer Assisted Learning Programs (PAL) proves that **students tutoring other students is effective**.
- University **students are willing to tutor** people what they know in their free time **if it is easy to find people** to tutor.

The Current State of ODU's Tutoring Resources

- Tutoring resources are not centralized.
- Less than half of course-specific tutoring covers 300 Level and above.
- Tutoring centers are predominantly opened exclusively during the daytime.
- **Not enough tutors** working in tutoring centers.
- **Many ODU students qualify to tutor**, yet they don't work for ODU as tutors.
- There are many students on campus willing to tutor, they are not being utilized, and **students need the help.**

TUTORING RESOURCES ON CAMPUS SPRING 2019

odu.edu/success/academic/tutoring

TUTORING CENTERS

Language Learning Center

Free language tutoring and much more
Batten Arts & Letters 3061
odu.edu/languagelearningcenter

Math & Science Resource Center (MSRC-Chem)

Drop-in tutoring for CHEM 103-214
Oceanography 146
odu.edu/sci/msrc

Math & Science Resource Center (MSRC-Math)

Drop-in tutoring for MATH 101-200, 205, 302, 307, 335, PSYC 317, and Praxis Core Math
Learning Commons 1312 odu.edu/sci/msrc
Drop-in or online tutoring for MATH 302, 335 (Peninsula Higher Ed Center)

MATH Lab

Math sessions and open lab for MATH 211, 212, and 312
DRCS 2114
odu.edu/math/lab

Physics Learning Center

Drop-in tutoring & collaboration space for Physics courses
Physical Sciences Building 2nd floor Atrium
odu.edu/physics/resources/learning-center

Writing Center

Appointment-based assistance for writing assignments in all courses
Learning Commons 1307
odu.edu/ai/centers/writing-center

OTHER SUPPORT RESOURCES

ePortfolio Assistance

Appointment-based help with ePortfolio and digital assignments
Learning Commons 1313
odu.edu/success/programs/eportfolio/resources

MATH/HELP

Math Course-Specific Help Directory
Directory of math and stat course tutoring resources
odu.edu/math/help

Office of Educational Accessibility

Educational support for students who experience disabilities
Student Success Center 1021
odu.edu/educationalaccessibility

Peer Academic Coaching

One-on-one meetings to improve on academic and self-management skills
Learning Center, Student Success 2nd floor commons area
odu.edu/success/programs/coaching

Supplemental Instruction

Group study sessions for CHEM 103-213, MATH 102-103, 162-163, 300, 205, PSYC317, and Praxis Core Math
Oceanography 131 and various locations
odu.edu/sci/msrc

Student Support Services

Academic assistance, including tutoring, for SSS students who are first-generation, pell eligible, and/or have a disability
Student Success Center 1104
odu.edu/ss

Workshops

Academic workshops are offered by request. Faculty, student organization groups, etc. may request a workshop or collaborate with CHIP staff to customize a workshop that meet their specific academic needs
Learning Center, Student Success Center 2nd floor commons area
odu.edu/success/academic/workshops



Problem Statement

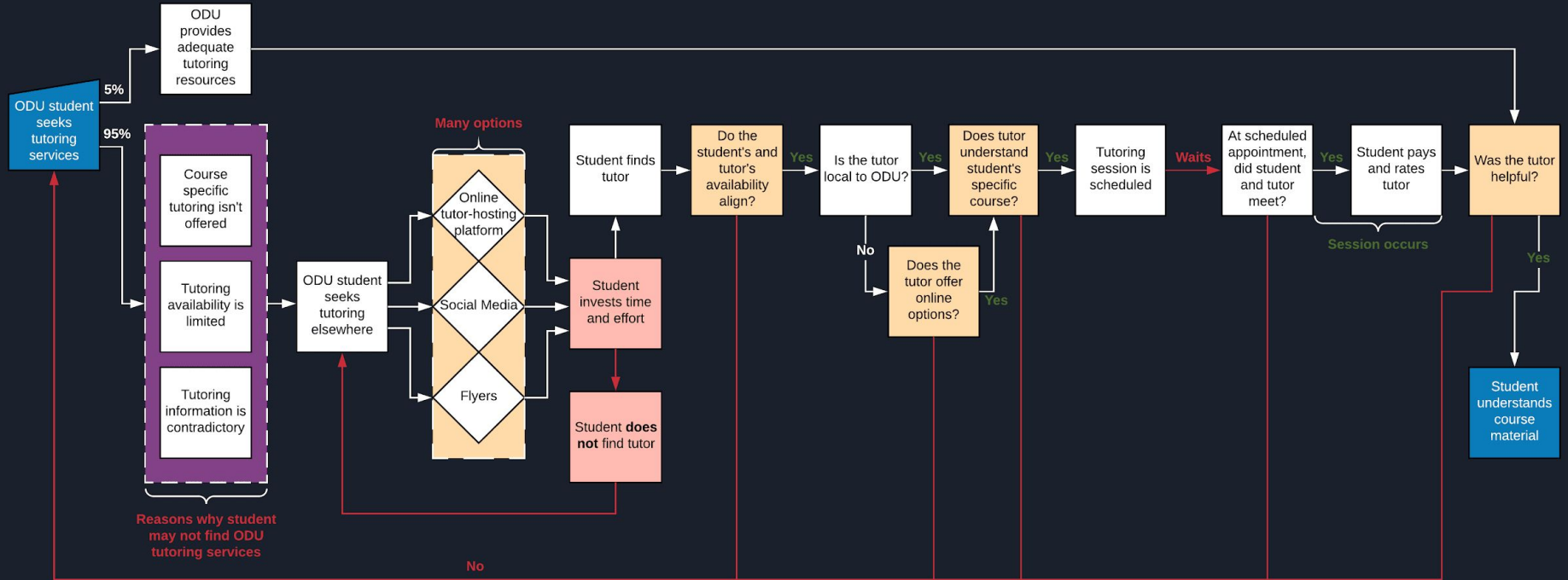
- **Tutoring services** available to ODU students **are limited** in scope, do not provide flexibility, and lack a centralized platform for promotion.
- **Students** willing to provide tutoring services **lack a tool to promote** those services.



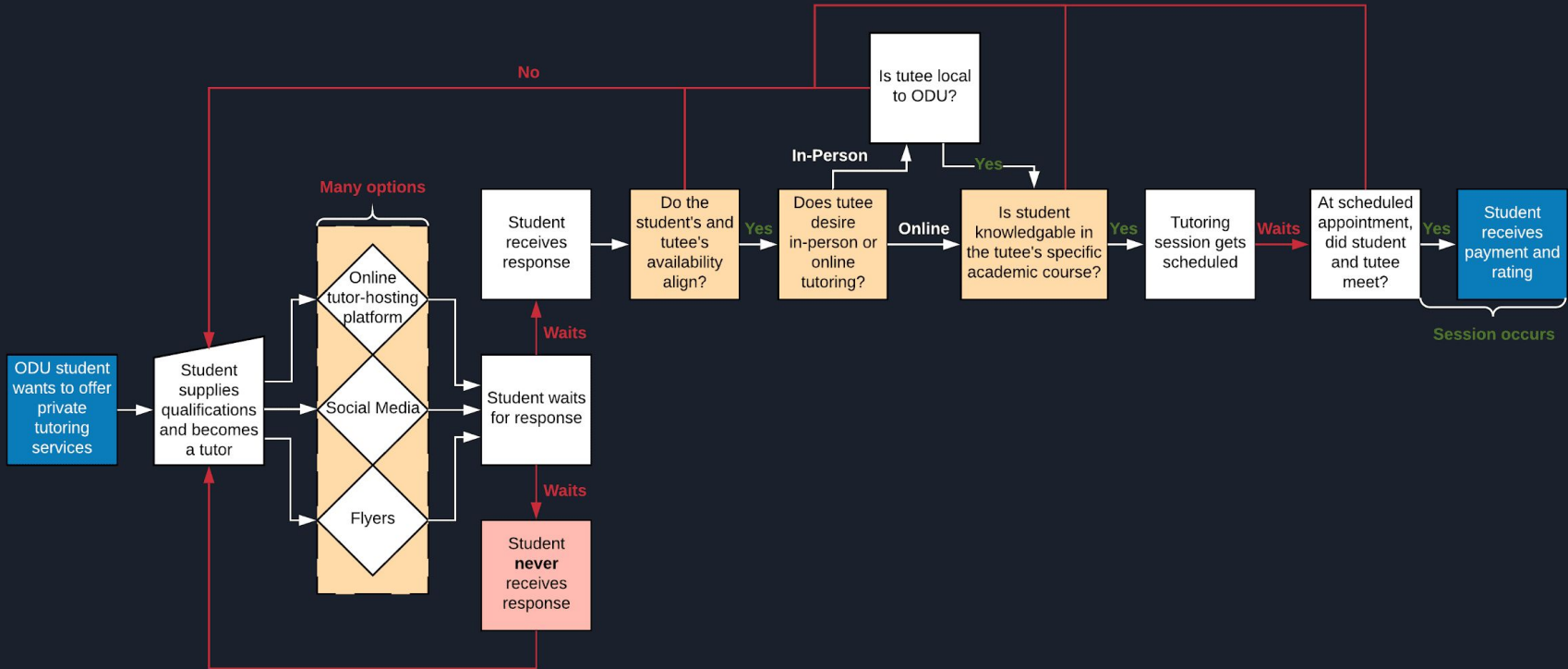
Problem Characteristics

- Tutoring is only offered for about 5% of all available ODU courses.
- Tutoring services do not encompass all study times.
- Information available about ODU's tutoring services is dispersed and not always accurate.
- Current information regarding when and where certain course-specific tutoring sessions is not always reliable.
- Students who find it necessary to seek tutoring outside of the university cannot be confident that the available services will be a good match for ODU-specific course material.
- ODU students do not have an adequate platform to advertise their tutoring services.

Current Process - Students Seeking Tutoring

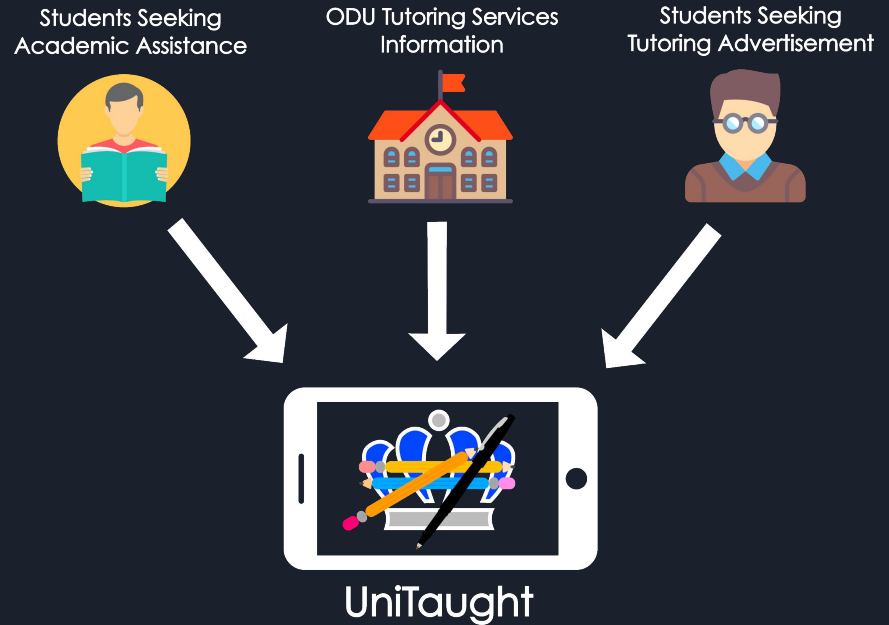


Current Process - Tutors Seeking Advertisement



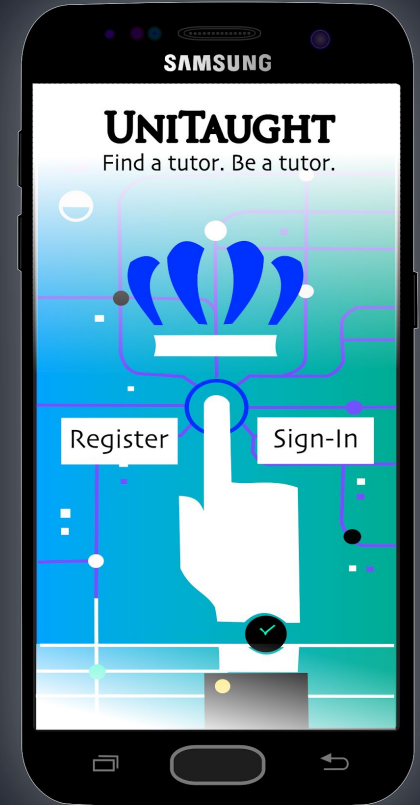
Solution Statement

- UniTaught is an application-based service that **unifies ODU students** who are interested in tutoring with ODU students who desire course-specific tutoring in real-time.
- **UniTaught provides an extension of ODU's current tutoring services** so that students can receive help for all courses 24/7.



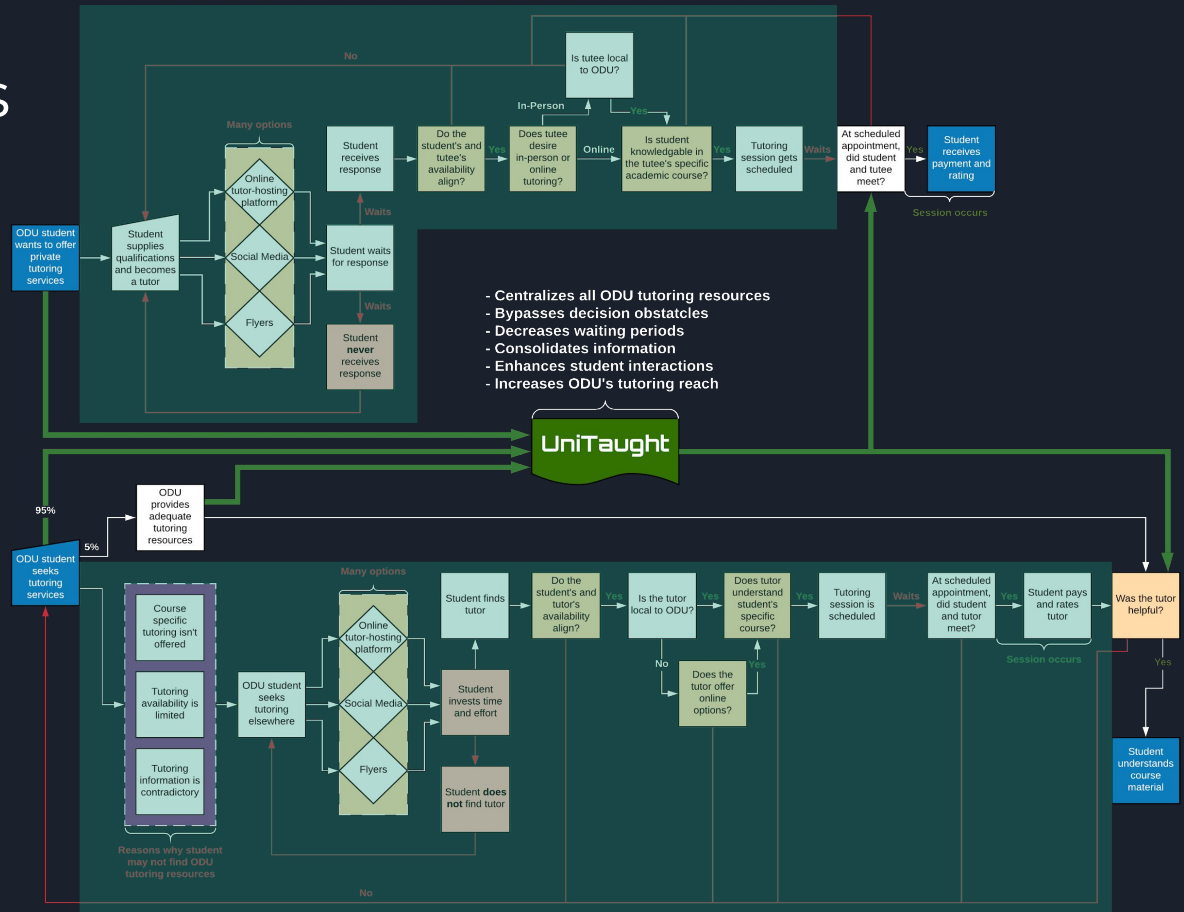
Solution Characteristics

- Only ODU students and tutoring center staff can use UniTaught.
- Information is updated frequently by ODU staff in real-time.
- Every tutor is required to provide verification.
- Implements a rating system for quality assurance.
- Qualified students can tutor in any class available at ODU.
- Tutors & tutees can make themselves available at any desired time.
- Notifications will be sent to connect participating tutors/tutees.
- Tutoring center Check-in's & Check-out's.
- Mechanism for payments is included within application.

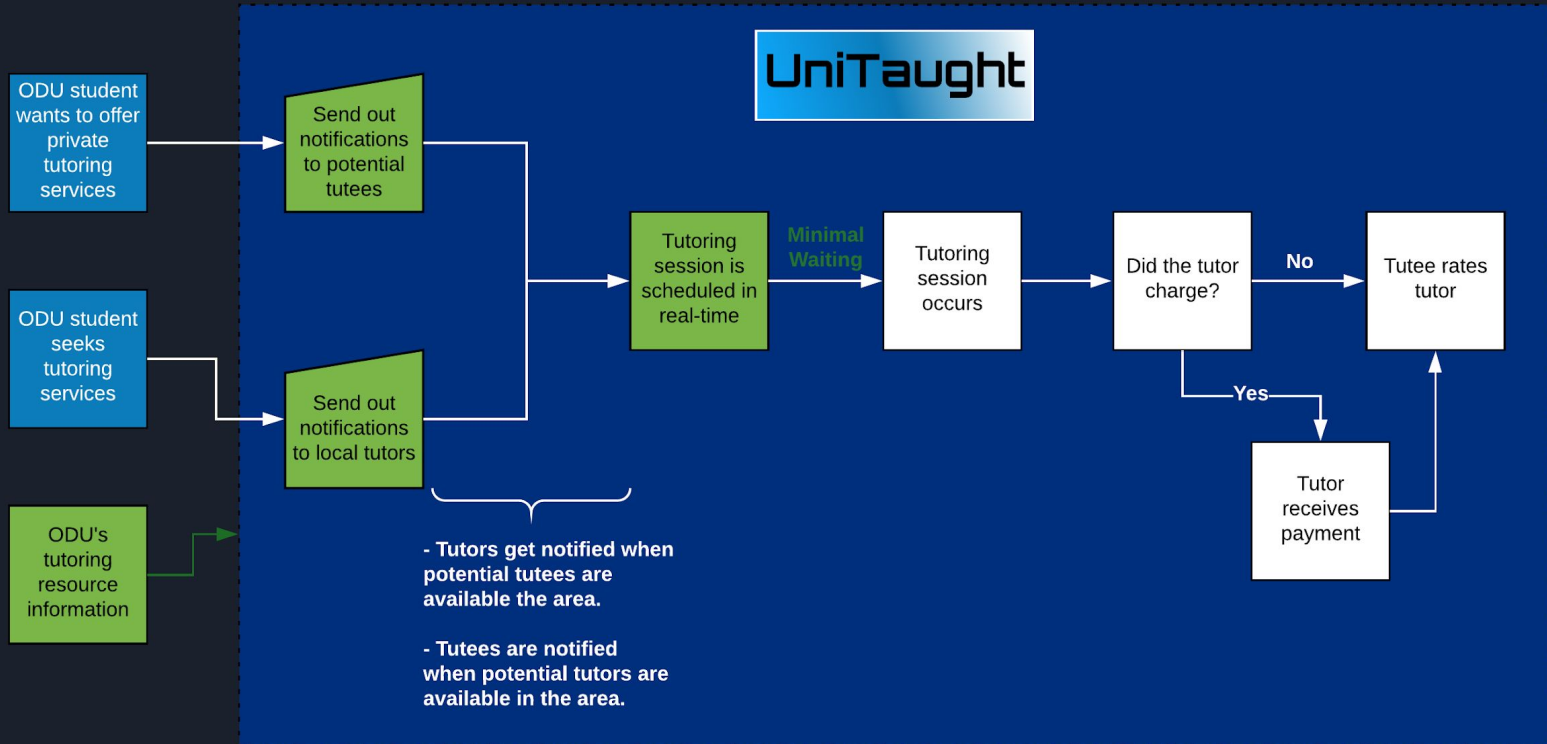


UniTaught's Solution

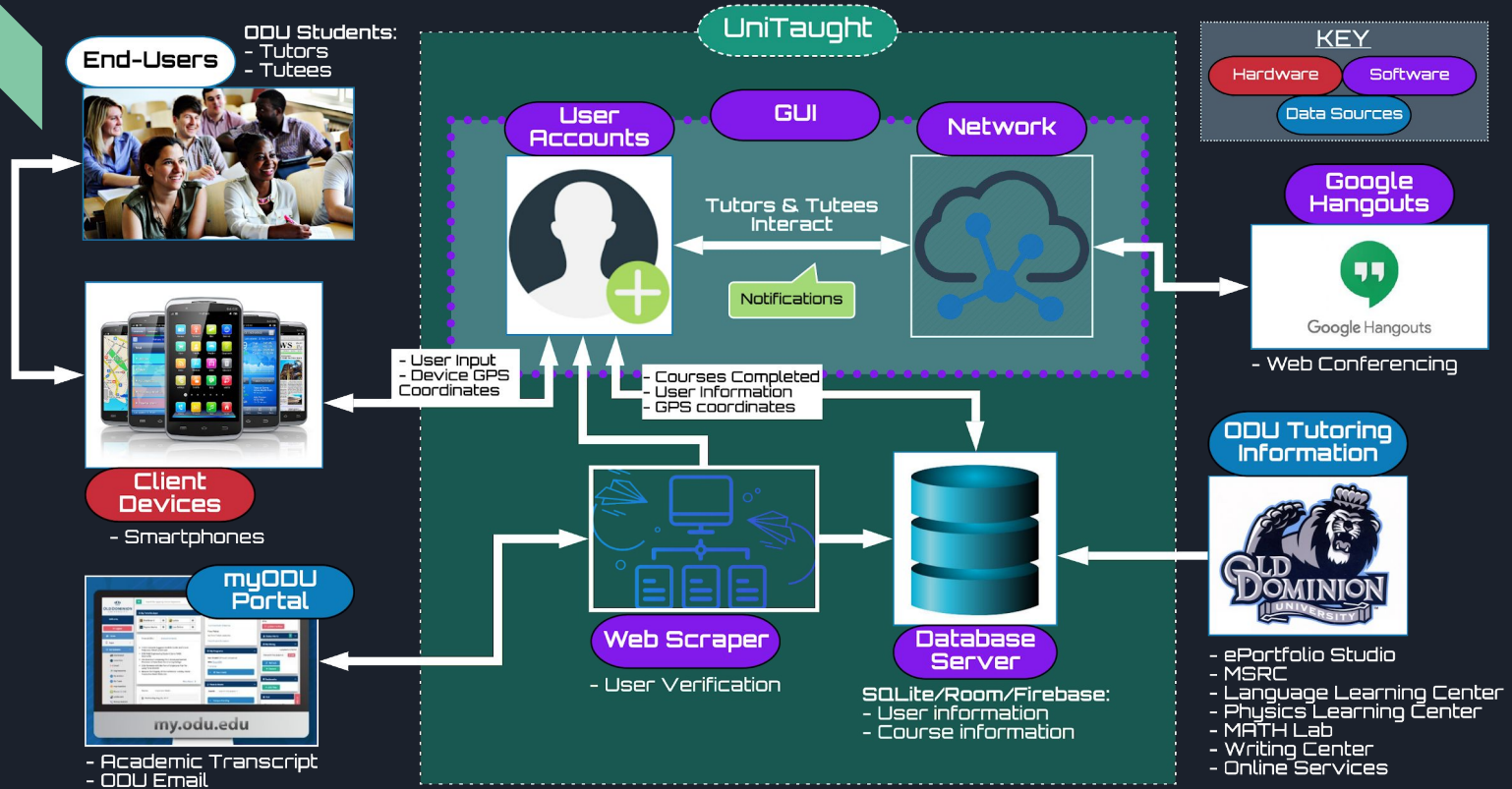
- Merge the solutions to both problems into one tool.
- Get rid of excessive options.
- **Less is more**



Solution Process Flow



Major Functional Component Diagram





What UniTaught Won't Do

- Cannot guarantee there is a tutor for everyone online 24/7.
- Cannot prevent students from voluntarily violating the honor code.
- Will not interfere with current ODU tutoring resources; only improve advertisement to extend reach.
- Will not be a hosting platform for established tutoring businesses.

Customers

- ODU students seeking tutoring services
- ODU students interested in tutoring
- Old Dominion University student services



End Users

- **ODU Student body**
 - ODU students who desire ODU's tutoring resources
 - ODU students who desire private tutoring resources
 - ODU private tutors who wish to advertise their services
 - ODU tutoring staff





Benefits to Customer Base

- Expands the scope of ODU's course-specific tutoring resources.
- Decreases availability conflicts.
- Tutors aren't waiting around for responses.
- Reduces frequency of cancellations by providing real-time scheduling.
- As tutoring increases, **DFWI rates decrease**. Students save GPA and money.
- **Students won't have to go out of their way in search of tutoring services** since they are contained conveniently in one place.
- **Alleviates frustration** in regards to contradictory information. **Improves information consistency** among ODU community.

Competition

	US	DIRECT COMPETITORS					INDIRECT COMPETITORS	
Features	UniTaught	Tutor.com	Tutor Matching Service	Skooli	Wyzant	HeyTutor	Care.com	Public Facebook Group
Integrates ODU-specific tutoring information	✓	✗	✗	✗	✗	✗	✗	✗
Offers ODU course-specific tutoring	✓	✓	✗	✗	✗	✗	✗	✗
Consolidates ODU services with qualified student tutors	✓	✗	✗	✗	✗	✗	✗	✗
Sends notifications about local tutors/tutees	✓	✗	✗	✗	✗	✗	✗	✗
Qualified tutors are constrained to ODU community	✓	✗	✗	✗	✗	✗	✗	✗
Provides real-time scheduling capabilities	✓	✓	✗	✗	✗	✗	✗	✓
Available as mobile application	✓	✓	✓	✗	✓	✓	✓	✓
Includes online tutoring options	✓	✓	✓	✓	✓	✗	✗	✓
Includes in-person tutoring options	✓	✗	✓	✗	✓	✓	✓	✓
Provides tutor ratings	✓	✓	✓	✓	✓	✓	✓	✗
Establishes hourly rate ceilings	✓	✓	✓	✗	✗	✗	✓	✗
Requires tutor verification/validation	✓	✓	✓	✓	✓	✓	✗	✗
Does not require subscription commitment	✓	✗	✗	✗	✗	✗	✓	✓
Provides 24/7 scheduling	✓	✓	✓	✓	✓	✓	✓	✓

More on ODU's Trial of Tutor.com

- Trial run of tutor.com offers **only 8 additional courses** exclusively covered by tutor.com.
- 24/7 real-time scheduling, BUT **tutors cannot be students.**
- Helps to expand available tutoring resources, BUT **doesn't help make use of existing underutilized resources.**
- Purely online-based.
- Doesn't unify and engage ODU student body.
- Tutors are hired by tutor.com and not tutees.
- **Trial ends on June 30, 2019.** What's next?
- **By itself, tutor.com is not an efficient solution** to the problem, **but it can be considered yet another ODU resource which UniTaught will incorporate.**



[Home](#) > [Student Success](#) > [Academic Development](#) > [Campus Tutoring](#)

NEW TRIAL: Tutor.com - 24/7 Online Tutoring

24/7 online tutoring via Tutor.com is available for a **trial period**. Access to the online tutoring platform is **limited to students enrolled in pre-selected courses** (see below). Please use the links in the table below to connect with an online tutor.

24/7 support will be available beginning Monday, March 4, and will continue until Sunday, June 30, 2019.

[Connect to Tutor.com NOW](#)

Username: youremail@odu.edu

Password: Check your email for pre-assigned password.*

*Only students currently enrolled in pilot courses are granted access to the platform.



Why Is This Worth Doing?

- There is an unsatisfied demand for tutors at ODU.
- Relevancy: As the private tutoring market expands, the demand for private tutoring resources increases.
- ODU can benefit from a more centralized tutoring information resource.
- Students can benefit both intellectually and socially.
- DFWI - Drop/Failed/Withdraw/Incomplete ratings will improve with student understanding.
- Students won't have to take classes multiple times.

In Summary

- High demand for tutors at ODU.
- Qualified students interested in tutoring are an untapped resource at ODU.
- Need for a more centralization of tutoring resources within the ODU environment.
- UniTaught makes this connection obvious.





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Questions?

Web Scraper Demo

- Processing the user's academic transcript.

```
Accessing portal...
```

```
Logging you in...
```

```
Please authenticate yourself...
```

```
-> Waiting... [Time Elapsed: 0 seconds]
-> Waiting... [Time Elapsed: 1 seconds]
-> Waiting... [Time Elapsed: 2 seconds]
-> Waiting... [Time Elapsed: 3 seconds]
-> Waiting... [Time Elapsed: 4 seconds]
-> Waiting... [Time Elapsed: 5 seconds]
-> Waiting... [Time Elapsed: 6 seconds]
-> Waiting... [Time Elapsed: 7 seconds]
-> Waiting... [Time Elapsed: 8 seconds]
-> Waiting... [Time Elapsed: 9 seconds]
-> Waiting... [Time Elapsed: 10 seconds]
-> Waiting... [Time Elapsed: 11 seconds]
-> Waiting... [Time Elapsed: 12 seconds]
-> Waiting... [Time Elapsed: 13 seconds]
-> Success!
```

```
Navigating to your transcript...
```

```
Processing raw HTML file...
```

```
FINISHED
```

COURSE	ID	NUMBER	GRADE	ELIGIBLE?
CALCULUS I	MATH	211	TP	NO
INTRODUCTION TO ANTHROPOLOGY	ANTR	110S	A-	YES
FOUNDATIONS OF CHEM I LECTURE	CHEM	121N	B+	YES
FOUNDATIONS OF CHEM I LAB	CHEM	122N	A	YES
EXPLORE ENGINEERING TECHNOLOGY	ENGN	110	A	YES
PRECALCULUS I	MATH	162M	A-	YES
WRITING FOR COLLEGE SUCCESS	UNIV	150	A	YES
FOUNDATIONS OF CHEM II LECTURE	CHEM	123N	C	NO
PROBLEM SOLVING & PROGRAMMING I	CS	150	A-	YES
INFO LITERACY RESEARCH ECE	ECE	111	A	YES
ENGLISH COMPOSITION	ENGL	110C	A	YES
PRECALCULUS II	MATH	163	A	YES
FUNDAMENTALS OF COMPUTER ENGN	ECE	241	B	YES
WORLD'S PAST SINCE 1500	HIST	100H	A	YES
CALCULUS II	MATH	212	B	YES
UNIVERSITY PHYSICS	PHYS	231N	C+	NO
PUBLIC SPEAKING	COMM	101R	A-	YES
CIRCUIT ANALYSIS I	ECE	201	W	NO
INTRO-TECH & SCIENTIF WRITING	ENGL	231C	A	YES
ORDINARY DIFFERENTIAL EQUATION	MATH	307	W	NO
UNIVERSITY PHYSICS	PHYS	232N	B+	YES
[INTRO TO THE VISUAL ARTS	ARTH	121A	A	YES
INTRO COMPUTER ARCHITECTURE I	CS	170	A	YES
PROBLEM SOLVING & PRGRMNG II	CS	250	A	YES
INTRO TO UNIX FOR PROGRAMMERS	CS	252	WF*	NO
INTRODUCTORY LINEAR ALGEBRA	MATH	316	B+	YES
INFO LIT FORMER ENGN MAJORS	CS	112	A	YES
INTRO TO UNIX FOR PROGRAMMERS	CS	252	P	YES
INTRO COMPUTER ARCHITECTURE II	CS	270	A	YES
OBJECT ORIENT PROGRAM/DESIGN	CS	330	W	NO
INTRODUCTION TO LITERATURE	ENGL	112L	A	YES
INTRO-PROBABILITY & STATISTICS	STAT	330	A	YES
COMPUTERS IN SOCIETY	CS	300T	A	YES
PRINCIP-PROGRAMMING LANGUAGES	CS	355	B+	YES
ADV DATA STRUCTURES/ALGORITHMS	CS	361	A	YES
INTRODUCTION TO PHILOSOPHY	PHIL	110P	A	YES
INTRO TO DISCRETE STRUCTURES	CS	381	A	YES
OBJECT ORIENT PROGRAM/DESIGN	CS	330	A	YES
INTRO TO SOFTWARE ENGINEERING	CS	350	A	YES
DATABASE CONCEPTS	CS	450	A	YES
OPERATING SYSTEMS	CS	471	A	YES