

Running Head: GradMap

CS411 Lab I

GradMap vs DegreeWorks

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1 Introduction

GradMap is a program in development by a small team that is a mission to provide a solution to one of the most common issues encountered by university students: managing a classload that is not only able to fit one's needs, but ensures that any user will be able to track the pace at which they are graduating, schedule for upcoming semesters, and ensure that all students using the program are able to graduate in an efficient and effective manner.

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This paper compares and contrasts the differences between GradMap and what the team behind it has identified as its greatest competitor: DegreeWorks. These will not be limited to the functions they both can perform, but also what each program can do independently, and how intuitive the program is concerning user interaction and interface.

2 What is GradMap?



Figure 1: GradMap WIP Logo

2.1 GradMap in Detail

GradMap is the greatest class scheduling program of all time!

3 What is DegreeWorks?



Figure 2: DegreeWorks Logo

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3.1 DegreeWorks in Detail

DegreeWorks is inferior to GradMap. DegreeWorks logo is shown in Figure 2: DegreeWorks Logo.

4 What makes GradMap Better?

It's not DegreeWorks, so everything!

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5 Glossary

GradMap

An interactive application designed to assist students and academic advisors in visualizing academic progress, managing course completion, and tracking degree requirements in real-time.

Data Management

The process of collecting, storing, and updating student information and progress data efficiently and securely within the GradMap system.

Real-Time Alerts

Notifications sent instantly to users when significant events occur, such as missing prerequisites, approaching graduation requirements, or changes in course availability.

Real-Time Data

The immediate access and updating of academic information within the GradMap dashboard, ensuring that users always view the most recent data.

Sensor Threshold

A system-defined limit used in GradMap's backend monitoring tools that triggers alerts when performance metrics or usage patterns exceed expected values.

User Dashboard

The central interface of GradMap that allows users to view degree progress, upcoming courses, alerts, and academic milestones all in one location.

Data Visualization

The use of interactive graphs and charts in GradMap to represent academic progress, credit completion, and GPA trends in a visual and understandable way.

References

CognitoForms. CognitoForms, <https://static.cognitoforms.com/content/support/assets/images/basicadmissionsapplicationworkflow0f52033c-6cfe-42af-84b7-f27227f9aa36-dc49634-1500x650.png>. Accessed 29 Sept. 2025.
Coursedog. "Academic Scheduling Software." Coursedog, www.coursedog.com/ppc/d-scheduling---

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1cta?utm_source=bing&utm_medium=cpc&utm_campaign=NA%2BNonBranded%2BBing&utm_agid=1349103273937169&utm_term=

university+scheduling+software&matchtype=p&creative=&device=c&placement=&msclkid=150f2b848aa2174d9b70435e5422ac86. Accessed 29 Sept. 2025.

“Common Issues with Degree Works Audits (and How to Fix Them).” David Kent Consulting, 26 Sept. 2025, davidkentconsulting.com/blog/common-issues-with-degree-works-audits-explained/. Accessed 06 Oct. 2025.

Lucid Visual Collaboration Suite: Log In, lucid.app/lucidchart/74262593-0fe2-4270-ab6b-53907305ee63/edit?viewport_loc=-2489%2C605%2C3361%2C2295%2C0_0&invitationId=inv_68ec5ed15618-4b56-8f10-59f3cad97e0b. Accessed 15 Oct. 2025.

Pinterest. Pinterest, <https://i.pinimg.com/736x/78/fa/54/78fa5434fc6f7382d1618cf906996885-graduate-school-school-life.jpg>. Accessed 29 Sept. 2025.

Searcy, Lucy. “Embracing Technology in Academic Advising: A Vantage Point from 14 Years in Higher Education.” NACADA The Global Community for Academic Advising, 15 June 2025, nacada.ksu.edu/Resources/Academic-Advising-Today/View-Articles/Embracing-Technology-in-AcademicAdvising-A-Vantage-Point-from-14-Years-in-Higher-Education.aspx. South Texas College.

“DegreeWorks FAQ.” South Texas College, studentservices.southtexascollege.edu/advising/degreeworks/faq.html. Accessed 28 Sept. 2025.

Online Flowchart & Diagrams Editor - Mermaid Live Editor, mermaid.live/edit#pako:eNpVkdFvgzAQhfKdVMrkSikEIKHSg20WVK1Q6ZCBgsObCXyYBilKfDfa0BVW-uGu3vfeye5g0zICBSKi7pmnGLDjnEqiX1PScS1aEzFmhNZLB77PRpSKYm3nuzu9oo0XNW1kOX9zO9GiETdYcSQGC7keZilaPK_

SexJnBxYbVR9-qscr6onz4l45zb-v8l1WtdLUjBasEXGNImYnhBwonNQIB2p0iw5UqCs2jtCNagqGY4UpUNvmTJ9TSOVgPTWTHOpVPzat2pKDzb40dmrrnBmMBs1-0VQ5qgj1UoDNJwSgHbwCdQN3aUbPKy8jS13E6w3DtzG9dLfen64DQJ_7XmuPzjwNd1cLbeB7wDmwij9Ov98pmQhShi-AXWkekc. Accessed 10 Nov. 2025.

Visily, app.visily.ai/projects/cb8e7992-d5bf-40ac-bc7b-2b9b1559f127/boards/2310867. Accessed 04 Nov. 2025.

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