



Introducing

# Academic GOAL

**A free, online actuarial science lecture  
and classroom tool for professors**



University of  
Pittsburgh



PURDUE  
UNIVERSITY



CONCORDIA  
UNIVERSITY  
WISCONSIN



TEXAS A&M UNIVERSITY



NORTH CENTRAL  
COLLEGE 1861



NIAGARA  
UNIVERSITY

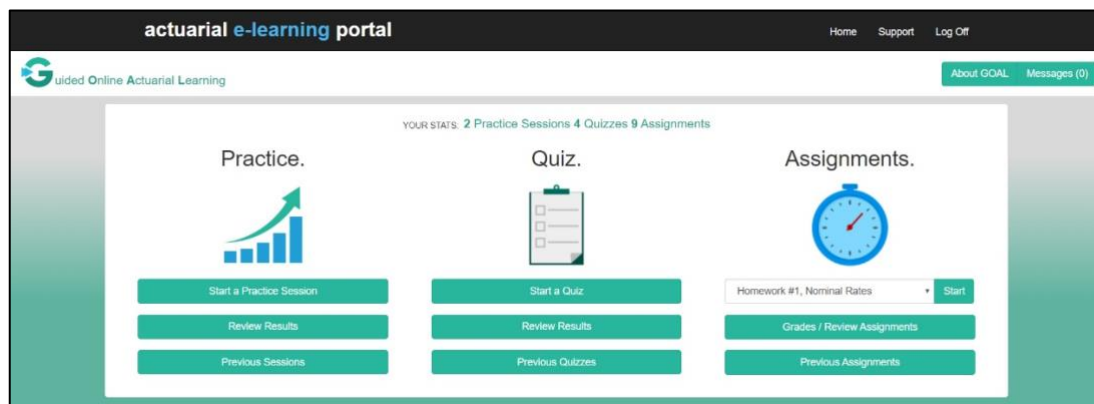
California Lutheran  
UNIVERSITY



## ACADEMIC GOAL

### An Actuarial Science Online Classroom Tool Unlike Anything You've Seen!

Academic GOAL provides professors with a free actuarial science database of over 10,000 questions that is easy to use and allows professors to control 100% of the content taught to their students. If it seems too good to be true, let us make a believer out of you.



### The Many Benefits of Academic GOAL

- A free, online actuarial science lecture and classroom tool for professors
- 10,000+ original and SOA/CAS preliminary exam questions from which to choose
- Teach exactly as you wish:
  - Full editing capabilities to customize any question or solution(s)
  - 100% control over every aspect of the question and assignment content with your individually managed copy of the GOAL exam database
  - Easily populate your assignments with existing questions
  - Add your own questions or we'll import them for you
  - Create a variety of assignment types, including timed quizzes and tests
  - Select the level of difficulty (or range) for each question or assignment

- Quickly build the structure of your course assignments
- Automated grading with 100% control over when, or if, grades and solutions are released to students
- Simple enrollment – students are automatically added to your class roster with one, shared access code per class
- Analyze performance in multiple ways – by student and/or assignment

### **Additional Benefits for Your Students**

- Independent study access to all GOAL questions not selected for use in your classroom (typically 800+ remaining questions, organized by SOA/CAS learning objective)
- Topic-by-topic instructional videos – released to students concurrently with the answers and solutions

### **Frequently Asked Questions**

- **Pricing: What's Free? What Do Students Pay For?**
  - Free: Professors may use Academic GOAL for lecturing at no charge to either themselves or their universities.
  - Discounted: Students can purchase access to Academic GOAL for classroom assignments at a discounted price of only \$18 per student per semester (Jan 1 – May 31 and August 1 – Dec 31). This access enrollment fee represents a 69% discount to the cost of our standard GOAL product (\$59 for 6 months access). This fee is only due if professors create assignments for classroom use.
  - Free: Professors receive access to the ACTEX Actuarial Resource Center. This provides 60-day electronic access to all ACTEX and ASM preliminary exam study manuals and select ACTEX textbooks.
  - Discounted: At their option, students seeking additional resources to prepare for actuarial exams may request further discounted material, exclusively available to Academic GOAL students.

- No Contract: We are so certain that you'll love Academic GOAL that no contract is needed. Use our product for as long as you are satisfied with it.
- Win, Win: Ask about opportunities for professors to join our GOAL content creation team in exchange for reduced or free access for their students. Many professors have already signed up!

- **About the GOAL Question Database**

- GOAL was created by teams of actuarial science professors and subject matter experts from around the world.
- Questions were sourced independently from our ACTEX or ASM study manuals and ACTEX textbooks. However, since these various study materials often have examples from old SOA or CAS exam questions, there may be some limited overlap with the GOAL question content.
- Our GOAL teams have improved nearly all aspects of the source questions and/or their solutions, including the addition of many other features that are unique to GOAL (i.e., "Help Me Start", "Common Errors & Questions", alternative solutions, test tips, etc.). And you have the option to modify them further – any way you'd like!
- Includes thousands of newly created exam-style questions

- **Popularity of Academic GOAL**

- Launched in response to the COVID-19 crisis to help meet the online teaching needs of actuarial professors, classroom instruction began in late March 2020 across the US and Canada.
- Academic GOAL will remain available for Fall 2020 and beyond. Better still, we are continuing to add new, unique and helpful features.

- **Easy Account Set Up**

- Professors are provided with full administrative access usually within hours of their request. That means you can begin setting up your course today!

- This document, along with other resources and a brief video demonstration are [available here](#).
- Contact: Alysia Lurvey, Director of Academic & Corporate Solutions, [alysia@actexmadriver.com](mailto:alysia@actexmadriver.com)
  
- **FERPA Compliance**
  - Academic GOAL will be fully FERPA compliant by the end of May 2020.
  
- **Our Technical Support Team**
  - Weekday work hours (Eastern Time) – most professor and student technical support inquiries are responded to within 1 hour. Most issues are fully resolved within 3 hours.
  - Weekend and weekday evening hours (Eastern Time) – most student and professor technical support inquiries are responded to within 2 hours. Most issues are fully resolved the following day, if not sooner.
  
- **Terms and Conditions**
  - We require that professors respect our copyright protections related to the original Academic GOAL content that is made available for classroom use.

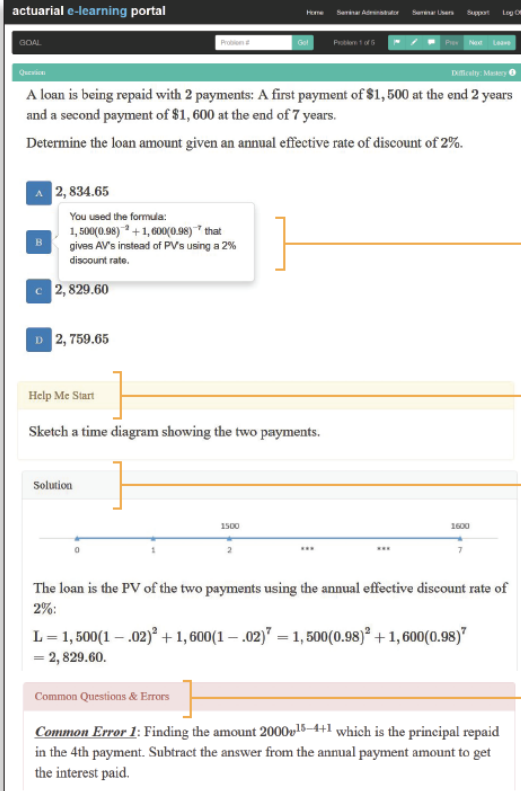
## **REQUEST A LIVE DEMO & LEARN MORE**

You simply cannot appreciate the power, ease and customization of Academic GOAL without seeing it live. Please contact us to set up a Zoom demo session.

- Alysia Lurvey, Director, Academic & Corporate Solutions  
[alysia@actexmadriver.com](mailto:alysia@actexmadriver.com)

## ABOUT GOAL – Original Student Version

- If you're not familiar with the functionality of the student version of GOAL, [please watch our video](#). It will be key to understanding the student experience.
- A robust learning tool – designed originally for independent study.
- Thousands of ACTEX and ASM study manual and textbook users have used GOAL since 2017.
- Students can focus on narrow learning objectives or more broadly on complete simulated SOA/CAS exams.
- Students select the level of difficulty.
- The user and administrator interfaces are extremely easy to use.



actuarial e-learning portal

GOAL Problem 4 Problem 1 of 5

Difficulty: Master

Questions

A loan is being repaid with 2 payments: A first payment of \$1,500 at the end 2 years and a second payment of \$1,600 at the end of 7 years.

Determine the loan amount given an annual effective rate of discount of 2%.

A 2,834.65  
 B You used the formula:  $1,500(0.98)^{-2} + 1,600(0.98)^{-7}$  that gives AV's instead of PV's using a 2% discount rate.  
 C 2,829.60  
 D 2,759.05

Help Me Start

Sketch a time diagram showing the two payments.

Solution

The loan is the PV of the two payments using the annual effective discount rate of 2%:

$$L = 1,500(1 - .02)^2 + 1,600(1 - .02)^7 = 1,500(0.98)^2 + 1,600(0.98)^7 = 2,829.60.$$

Common Questions & Errors

**Common Error 1:** Finding the amount  $2000v^{15-4+1}$  which is the principal repaid in the 4th payment. Subtract the answer from the annual payment amount to get the interest paid.

Flag for review, record notes & email the professor

Monitor difficulty level

Got it wrong? Often there is a simple reason why

Helpful strategies to get you started

Graphs and other solution techniques demonstrated when applicable

Commonly encountered errors