# MATH 462 Senior Project II

## 1. <u>Catalog Description</u>

## MATH 462 Senior Project II (2)

Completion of a mathematics project under faculty supervision. Project results are presented in a formal report. Minimum 60 hours total time. Prerequisite: MATH 461.

#### 2. Required Background or Experience

Successful completion of Math 461.

#### 3. <u>Learning Objectives</u>

The student should:

- a. Reduce a general problem to specific points of analysis.
- b. Organize points of analysis into a logical sequence.
- c. Apply competencies acquired in other courses to the successful completion of a specific project.
- d. Obtain information necessary to the solution of a problem by library study, experimentation, and/or correspondence and personal contact with individuals who have had experience in the field.
- e. Follow a work proposal without overlooking any major points or significant details.
- f. Organize, illustrate, and write a clear, concise, and correct report of the investigation.
- g. Work for a supervisor who desires quality performance with a minimum of supervision.

## 4. <u>Text and References</u>

Journals, books, and texts relevant to the topic.

# 5. Minimum Student Materials

Varies with each project.

#### 6. Minimum University Facilities

Library and computer labs.

#### 7. Content and Method

- a. Student must enroll in section of Math 462 assigned to the project advisor before the last day to add courses for the quarter.
- b. The student continues to meet regularly with his/her advisor.
- c. After complying with the advisor's recommendations, the student will submit the following items in an envelope labeled *Senior Project* to the advisor:
  - i) The corrected final report including title and approval pages (see samples below); and
  - ii) A completed Graduate Status Report (attached at the end of this document).

#### d. The advisor:

- i) Reads the final report and assigns a grade for Math 462.
- ii) Signs the approval page.
- iii) Forwards the complete package (including the completed Graduate Status Report form) to the Mathematics Department chair.
- e. The department chair checks completeness of the submitted package, signs the approval page, and records completion of the project. Projects are then returned directly to the advisor. If a project is deemed meritorious by the advisor, the student, with the consent of the advisor, may submit the project to the library by following the instructions found here:

  digitalcommons.calpoly.edu/seniorprojects/.

(Sample Title Page)

(TITLE)

by

(Name)

Mathematics Department

California Polytechnic State University

San Luis Obispo

2018

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# APPROVAL PAGE

TITLE:	Daily Sunspot Spectral Analysis	
AUTHOR:	(Student's name)	
DATE SUBMITTED:	June 2017	
Senior Project Advisor		Signature
-		_
Mathematics Departmen	nt Chair	Signature



## **CAL POLY GRADUATE STATUS REPORT**

Please take a few minutes to respond to the questions below for Cal Poly's annual Graduate Status Report. Know that your Graduate Status response will support the Cal Poly community in advising current students, showcasing collective alumni accomplishments, and articulating the value of Cal Poly's Learn by Doing curriculum to employer and graduate school representatives. We wish you continued success in all your professional and personal endeavors.

Name:		Cal Poly Username:					
First		Last	Degree: Bachelor's		Master's □		
Grad Date:		Personal Email:					
Please check the radd Job:	nost appropriate respo	onse:					
Industry (See Back	For Options):						
Location (City, Sta	te):						
When: Offer Recei	ved Date:	Offer Accepted	d Date:	Start Date:			
	ation:	·	se Salary:				
Expected Bonus:			teed Compensation: _				
Signing Bonus:		Relocation Re	imbursement:				
Did this job come  List all Internsh		Directly related Caship you had with thi	ı ı	□ Not related © No □			
		Yes or					
			<del></del>				
		Yes or	No				
Please share any a	dvice you have for Ca	l Poly students in you	r field:				
			Start Da	Certificate ☐ ate:			
Location (City, Sta	te):						
Graduate Assistan	t:		Stipend:				
☐ Not Seeking E	mployment/Education	n	ons)				
Outcome Position	:						
Location (City, Sta							
•							

The information collected is confidential, if you do not want your response to this survey shared with other University offices, please check this box.  $\Box$ 

## UNLIMITED POSSIBILITIES

#### Industry (Insert Abbreviation):

- » Accounting (ACT)
- » Advertising (ADV): General, Marketing, Public Relations
- » Aerospace/Aviation (AERO)
- » Agribusiness (AGB)
- » Automotive (AUTO)
- » Construction (CONST)
- » Consulting (CONSU): General, Biotech., Gas/Oil, Healthcare, Nonprofit, Management, Tech., Other)
- » Consumer Products (CP): General, Apparel, Food/ Bev., Electronics, Household, Luxury, Tobacco/ Alcohol, Other
- » Economic Development/Microfinance (ECON)
- » Education (EDU)
- Energy/Utilities (ENER): General, Alternative Energy, Energy Trading, Oil/Gas, Utility Services, Other
- » Entertainment (ENTER): General, Recreation, Sports Mgmt.
- » Environmental Services & Sustainability (ENVE)
- » Finance (FIN): General, Commercial Banking, Diversified Financial Services, Hedge Funds, Insurance, Investment Banking, Investment Mgmt., Private Equity, Public Finance, Research & Ratings, Tax, Treasury, Venture Capital, Other

- » Government (GOV): General, Local/State/Federal, MilitaryHealthcare (HC): General, Biotechnology, Medical Devices, Providers & Services, Other
- » Hospitality/Tourism (HOSP)
- » Human Resources/Recruitment (HR)
- » International Trade Import/Export (IT)
- » Law/Legal Services (LAW)
- » Manufacturing (MFG): General, Chemicals, Heavy Equipment, Packaging, Plastics/Rubber, Other
- » Media (MEDIA): General, Publishing, Radio/TV/Film
- » Natural Resources (NR): General, Forest, Metals/ Mining
- » Nonprofits & Social Enterprises (NONP)
- » Pharmaceutical (PHAR): General, Distribution/ Wholesale, Manufacturers, Other
- » Real Estate (RE): General, Commercial, Residential, Services, Other
- » Retail (RET)
- » Technology (TECH): General, Hardware/Networking, Internet Services, Multimedia Services, Software, Other
- » Telecom (TELE): General, Manufacturing, Services, Other
- » Transportation/Logistics (TRANS)
- Other (OTHER)

#### Job Source:

- » Career or Job Fair
- » MustangJOBS job posting
- » Employer information/networking meeting
- » Scheduled interviews on campus
- » Resume books, resume referrals, web resumes
- » Off-campus activities supported by Cal Poly Career Services
- » School-facilitated Internships
- » Graduate-facilitated internships
- » Faculty referrals
- » Alumni referrals

- » Previous employer
- » Family, friends outside school
- » Consortia events
- » Other school-facilitated activity
- » Internet
- » Video and telephone interviews
- » Third-party sources (e.g., executive recruiters)
- » Direct mail campaign
- » Newspaper, magazine, and other advertisements
- » Other

#### Seeking Employment Status:

- » I have yet to make any attempts to look for a job
- » I have applied for one or more opportunities but have not received an invitation to interview
- » I have interviewed for one or more opportunities but have not received an offer of employment
- » I have received one or more offers of employment and I am currently deciding
- » I have received one or more offers of employment but have declined

#### Other Outcome:

- » Postponing Job Search
- » Fellowship
- » Service Organization
- » Volunteering
- » Military Service

- » Exam preparation
- » Artistic pursuits
- » Caring for or starting a home or family
- » Taking time off
- » Studying abroad

- » Summer classes
- » Research
- » Other intentions
- calpoly.12twenty.com/SignUp/Student