

# GHASSAN NASR

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## Education

- 12/2007. M.Sc. in Industrial/Applied Mathematics. The University of Texas at San Antonio.
- 06/1989. B.Sc. in Mechanical Engineering, The University of Texas at San Antonio.

## Teaching

- Calculus for Business
- Calculus I
- Precalculus
- College Algebra with Applications
- Algebra for Scientists and Engineers
- Mathematics for Business

## Teaching Philosophy

Teaching is an endeavor that requires a commitment to human interaction, an understanding and a deep knowledge of a particular subject. Teaching mathematics could be a challenging but yet rewarding accomplishment for any who undertakes it.

My philosophy of teaching mathematics is embedded in the fact that I look at the class and the organization of the classroom as not a hierarchical one but a circle or an all-channel network. For this reason, as a teacher, I have the challenging task of not just teaching and helping a diverse number of students achieve their potential but also how to treat and lead the students as followers.

In my challenge to communicate the principles of mathematics, and to motivate my students in its study, I combine standard classical lecture with discussion and emphasis on teamwork.

Mathematics is a varied subject, important in any culture, and essential to our knowledge of the universe. I want my students to appreciate the diversity of mathematics with all of its principles. To this end I strike a balance in developing my student's skills with problem solving and their understanding of basic mathematical principles.

## **EXPERIENCE**

**2021 – Present      UNIVERSITY OF TX AT SAN ANTONIO, San Antonio, TX**

### **Senior Lecturer**

Duties include actual instruction in a classroom setting and in recitation sections. Conduct help sessions and hold office hours to advise students on class assignment, and grading papers, exams, and homework. Prepare course syllabus and schedule and retain ultimate responsibility for the course and assignment of grades.

**2015 - 2017      UNIVERSITY OF TX AT SAN ANTONIO, San Antonio, TX**

### **Math Coordinator**

Coordinated and conducted meetings with all faculty teaching MAT 1073. Made sure all syllabi have uniformity and same information on subjects covered. Make sure data is collected for the common core committee assessment.

**2008 – Present      NORTHWEST VISTA COLLEGE, San Antonio, TX**

### **Adjunct Professor**

Duties include actual instruction in a classroom setting and in recitation sections. Conduct help sessions and hold office hours to advise students on class assignment, and grading papers, exams, and homework. Prepare course syllabus and schedule and retain ultimate responsibility for the course and assignment of grades.

**2007 – 2021      UNIVERSITY OF TX AT SAN ANTONIO, San Antonio, TX**

### **Lecturer I**

Duties include actual instruction in a classroom setting and in recitation sections. Conduct help sessions and hold office hours to advise students on class assignment, and grading papers, exams, and homework. Prepare course syllabus and schedule and retain ultimate responsibility for the course and assignment of grades.

**2/1991 - 1/1997      PARSONS      Pasadena, CA  
CORPORATION**

### **Engineer/Technical Specialist**

As a team member of the Idaho National Engineering Laboratory (INEL) Project, participated in developing Resource Conservation and Recovery Act (RCRA) Certification Report for the high-level liquid waste evaporator located at the Idaho Chemical Processing Plant.

Assigned to the Lawrence Livermore National Laboratory (LLNL) Project. Participated in the development of P&IDs, line sizing, equipment selection, design specifications, and preparation of regulatory compliance and permitting documents.

Assisted the systems engineering team at the Westinghouse Hanford Company (WHC) in developing systems engineering practices and procedures for the Hanford Systems Engineering Support Project.

As a team member, participated in the evaluation and comparison of specific technologies for the LANL Waste Management Support Project. This included establishing mechanisms for technology transfer and commercialization, the applicability of specific technologies to outside markets, and the needs of potential customers and markets.

Assigned to the LANL project for the preconceptual design of Radioactive Liquid Waste Treatment Facilities. Responsibilities included development of functional design criteria in accordance with applicable DOE Orders, RCRA compliance, ALARA considerations.

Assigned to the Pantex DOE project. Participated in the development of Preliminary Safety Analysis Report for the Pantex High Explosives Plant. Responsibilities included evaluation of Failure Mode and Effects Analysis, preliminary fire hazards analysis in accordance with DOE Orders, and compartmental fire simulation using FIRAC and FPETool software packages.

As a team member for the ARCO Alaska GHX-2 project, responsibilities included preparation of purchase requisitions and procurement specifications for equipment and performed equipment specifications and selection, vendor data review, technical bid analysis, data sheets, and thermal rating.

**5/1990 - 1/1991**

**SOUTHWEST  
RESEARCH  
INSTITUTE**

**San Antonio, TX**

### **Associate Engineer/Designer**

Took part in the research and development of a spherical compressor/pump to serve as a supercharger for a two-stroke engine. Utilized the Hewlett-Packard ME 10 and AutoCAD drafting packages and finite element analysis as a design tool. In addition, participated with the department head, in final review and analysis of the innovative design.