SMU莱尔学院概况

- 80%的学生通过暑期工读和产学结合获得实际经验

- 电子工程专业被《美国新闻和世界报道》评为国内名列前茅

- 运筹学和管理科学专业在全美同类专业中名列前25位

- 按教师人均计算，SMU常得到全国最大的研究奖项

- 莱尔学院的校友罗伯特·德纳博士发明了动态随机存储记忆体（DRAM）

- 根据高校事实网的排名，SMU的工程系毕业生的收入在全国356所高校中高居第19位。

学科设置

- **土木工程和环境工程系**: 主要涉及规划、设计、建筑、维护和管理国家的基础设施。

- **计算机科学和工程系**: 本科和研究生课程着眼于计算机设计、软件结构和应用程序。

- **电子工程系**: 授予核心科技领域的学位，例如生物医学工程、通讯和信息技术、系统控制和数字信号处理。

- **工程管理和信息系统**: 将学校的科技管理和工程专长合二为一。

- **机械工程系**: 本专业着重于为工业设计和制造、机器人技术、生物医学工程、汽车和运输系统中的问题提供解决方案。

除了提供质优面广的传统的工程教育，莱尔工程学院还重视新技术、领导才能、工程管理和创业精神的学习，同时让学生有更多机会接触诸如电子技术、信息工程和知识工程等全新领域。

我们的教育理念是帮助我校毕业生培养严谨的专业态度，掌握多种跨学科知识，以便他们在步入社会后能快速担当起重要的管理和领导职责。莱尔学院不仅教授学生们在全球竞争激烈的环境中成为科技创业家，也使他们日后能进入研究生院和专业研究机构深造。

师资队伍

桂萍博士

电子工程系教授，主要研究方向是模拟和混合信号集成电路设计，包括高速接口、数据链接、医疗仪器和设备和用于辐射、超高温及其他恶劣环境下的电路设计。

Delores Etter 博士

电子工程和计算机科学系的教授，Delores Etter博士有着丰富的工作经验，她曾在海军任主管研发和采办的助理秘书长，以及在海军和海军陆战队任高级采购主管。

学生花絮

莱尔学院的学生们在掌握科技知识的同时，更注重创造性思维。上学期我对肌肉、关节构造和运动协调产生了浓厚的兴趣，有幸加入了"运动性能实验室"，参与了他们和国防部的联合研究项目。

Michelle Kim '15 | 主修机械工程，辅修数学和音乐

在校学习了两年之后，我获得了在德州奥斯汀的超微半导体公司（AMD）全职的实习机会。我参加了他们的软件工程测试组，负责编制对每个处理器进行出厂前测试的软件。SMU的教授们鼓励学生自学和快速接受新鲜事物。我在SMU的工程课上学到了许多有益的技能。我最近刚结束了另外一个涉及联邦政府网络安全方面的实习。

Thomas Griffin '13 | 计算机科学和法语

SMU LYLE FACTS

• 80% of students earn **real-world engineering experience** via summer internships and co-ops

• Electrical Engineering program ranked among **nation's best** by *U.S. News & World Report*

• Operations Research & Management Science program **ranked nationally** in top 25 OR/MS programs

• On a per faculty basis, SMU receives some of **largest research awards** in the nation

• SMU Lyle alumnus, Dr. Robert Dennard, invented **Dynamic Random Access Memory, or DRAM**

• *College Factual* ranks SMU #19 out of 356 colleges for having the **highest paid Engineering graduates**

FIVE DEPARTMENTS

• **Civil Engineering and Environmental Engineering:** Programs focus on planning, designing, constructing, maintaining, and managing the nation's physical infrastructure.

• **Computer Science and Engineering:** Undergraduate and graduate programs focus on all aspects of computer design as well as software construction and applications.

• **Electrical Engineering:** Offers degrees covering core technology topics in areas such as biomedical engineering, communications and information technology, control systems, and digital signal procressing.

• **Engineering Management and Information Systems:** EMIS brings together the school's technical management and engineering expertise.

• **Mechanical Engineering:** Programs focused on solutions to problems in design and manufacturing, robotics, biomedical engineering, automotive and transportation systems.

In addition to providing the highest quality traditional and broad-based engineering education, the Lyle School of Engineering emphasizes the study of technology, leadership, engineering management, and entrepreneurship while providing exposure to new areas of e-technology, information engineering, and knowledge engineering.

Our educational process prepares graduates to be highly recruited engineers with the appropriate interdisciplinary knowledge to rapidly assume important management and leadership positions. SMU's Lyle School of Engineering prepares students not only to become technical entrepreneurs in a globally competitive world, but to be fully qualified to attend graduate and professional schools.

FACULTY RESEARCH

Dr. Ping Gui is an Electrical Engineering professor whose primary research interests are analog and mixed-signal IC design for various applications, including high-speed interface, data links, medical instruments and devices, and circuits for radiation and extreme temperature and other harsh environments.

Dr. Delores Etter is an Electrical Engineering and Computer Science professor who brings invaluable experience to SMU from her past work as the Assistant Secretary of the Navy for Research, Development, and Acquisition and as the Senior Acquisition Executive for the Navy and the Marine Corps.

STUDENT PROFILES
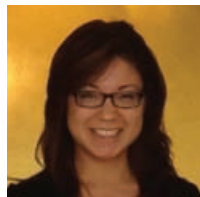
Lyle students not only master technical material, but also learn how to think creatively. Last semester I developed an interest in muscles and the concepts that link physics and the mechanics of movement and was able to join the team at the Locomotor Performance Laboratory to help with their research for the Department of Defense.
Michelle Kim '15 | Mechanical Engineering, Math & Music Minor

Following my second year I took an internship working full-time for Advanced Micro Devices (AMD) in Austin, TX. I was part of the Test Software Engineering team, which was responsible for writing the software tests that ran on every processor before it was shipped out.   The professors at SMU encourage learning on your own and picking up new things quickly. My engineering classes at SMU have prepared me for many things and I recently completed another internship for the US Government working in cyber security.
Thomas Griffin '13 | Computer Science & French