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**UCLA** Engineering

HENRY SAMUELI SCHOOL OF  
ENGINEERING AND APPLIED SCIENCE

M E M O R A N D U M

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**MS ENGR Online Program  
7440 Boelter Hall**

TO: Prof. Ben Williams, FEC Chair

FROM: Prof. Jenn-Ming Yang, Director, Engineering MS Online Program

DATE: May 5, 2016

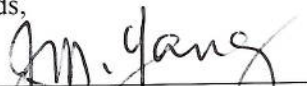
RE: REQUEST LETTER OF SUPPORT FOR NEW MSOL DEGREE

Attached is the new degree proposal for the Engineering Online Program. We are requesting a letter of support for the establishment of a new degree program to be offered through Engineering MS Online Program. The proposed degree is:

Master of Science in Engineering – Data Science

If you have any questions, please do not hesitate to contact me.

Regards,



Jenn-Ming Yang, Professor and Associate Dean  
International Initiatives and Online Program

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**MS ENGR Online Program  
7440 Boelter Hall**

TO: Graduate Council

FROM: Mario Gerla, Chair, Computer Science Department  
Greg Pottie, Chair, Electrical Engineering

DATE: May 4<sup>th</sup>, 2016

RE: NAMED DEGREES (SPECIALTIES) FOR MSOL  
PROGRAM

This letter is to express support of the Computer Science Department and Electrical Engineering Department for the proposed named degree specialties to be offered through the Master of Science Engineering Online Program (MSOL) of the Henry Samueli School of Engineering and Applied Science.

The proposed new names are:

MS Engineering- Data Science

If you have any questions, please do not hesitate to contact us.

Regards,



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Mario Gerla  
Professor and Department Chair



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Greg Pottie  
Professor and Department Chair

# **Master of Science**

## **Admission**

### **Program Name**

Engineering-Data Science

Engineering is a major offered by the Henry Samueli School of Engineering and Applied Science

### **Address**

7440 Boelter Hall  
951601  
Los Angeles, CA 90095-1601

### **Phone**

(310) 825-6542

### **Email**

[admissions@msengrol.seas.ucla.edu](mailto:admissions@msengrol.seas.ucla.edu)

### **Leading to the degree of**

M.S.

### **Admission Limited to**

Fall, Spring

### **Deadline to apply**

Fall: May 15th; Spring: January 15th

### **GRE (General and/or Subject)**

GRE: General

### **Letters of Recommendation**

**3, at least one from employer**

### **Other Requirements**

In addition to the [University's minimum requirements](#) and those listed above, all applicants are expected to submit a statement of purpose and the departmental supplement.

### **Advising**

Each student in this program is assigned an adviser by Engineering Online Department. New students should contact the school's student affairs officer and the faculty adviser on notification of admission,

Continuing students are expected to remain in contact with the faculty adviser and the student affairs officer. Based on the quarterly transcripts, student records are reviewed at the end of each quarter by the student affairs officer and the Associate Dean for Academic and Student Affairs. Special attention is given if students were admitted provisionally or are on probation. If their progress is unsatisfactory, students are informed of this in writing by the Associate Dean for Academic and Student Affairs.

Students are strongly urged to consult with the Office of Academic and Student Affairs regarding procedures, requirements and implementation of policies. In particular, advice should be sought on advancement to candidacy for the M.S. degree.

### **Areas of Study**

Data Science

### **Foreign Language Requirement**

None.

### **Course Requirements:**

At least nine courses are required, of which at least five must be graduate courses at the 200 level (excluding ENGR 299 project course), and meet comprehensive requirement.

### **4 Required Core Courses:**

CS143 or CS240A , CS249 or EE205A, CS260 or EE210A, CS248 or EE235

Please select the remaining courses from the following Electives Tracks:

#### **Option 1: Database and Data Management**

CS240A, CS240B, CS244A, CS246, CS249, EE235A

#### **Option 2: Inference and Learning from Data**

CS262A, CS264A, CS269, CS289ML, CS M231,

EE210B, EE232B, EE238, STAT 218, STAT 201B, STAT 201C

#### **Option 3: Applications to Vision, Speech and Bioinformatics**

CS205, CS244, CS M221, CS M225, CS M266AB, CM299, EE214A, EE214B, STAT231A/CS266A, STAT232B/CS266B, STAT 238

#### **Option 4: Optimization and Statistical Analysis**

EE236A, EE236B, EE236C, EE210B, EE238, STAT 236, STAT 201B, STAT 202B, STAT 202C, STAT 204

#### **Other electives:**

CS133, CS161, EE131A, STAT 101C, STAT 102C, STAT 105, STAT C161

### **Field Experience**

Not required.

### **Comprehensive Exam Requirement**

Students can meet the Comprehensive Exam Requirement in two ways: Choose (1 option below)

Option 1:

Take and Pass ENGR 299 Capstone Project course.

**Option 2:**

Take and pass three written exams for three different graduate level courses within the student's area of specialization. The written exams are held concurrently with the final exam of the graduate level courses. Students may select which exams they would like to count towards the Comprehensive Exam requirement.

**Electives:**

As long as you have met the requirements above the remaining courses may be selected from other departments. No approval is necessary

**Thesis Plan**

*NONE*

**Time-to-Degree**

**Students are expected to complete the degree within two academic years and one quarter, including two summer sessions. The maximum time allowed in this program is three academic years (nine quarters), excluding summer sessions.**