



MOORPARK COLLEGE
is developing an interdisciplinary program in DATA SCIENCE

Launching in Fall of 2021, this interdisciplinary program will teach statistical, programming, and machine learning skills one needs to know to perform analytics.

The program will also offer a number of different emphases in disciplines such as business, mathematics, and political science. This program can be completed in as little as two semesters.

DATA SCIENCE ADVISORY MEETING

Wednesday, December 16th, 2020 from 8:30AM – 9:00AM

Zoom: <https://cccconfer.zoom.us/j/91744070605>

AGENDA

- I. WELCOME!
- II. BRIEF INTRODUCTIONS
- III. DATA SCIENCE LABOR & EMPLOYMENT OUTLOOK
- IV. DATA SCIENCE PROGRAM & CURRICULUM PROPOSAL AT MOORPARK COLLEGE
- V. DATA SCIENCE INDUSTRY ADVISORY NEXT STEPS
- VI. ADJOURN

DATA SCIENCE PROGRAM CONTACTS:

Brendan Purdy, PhD
Professor of Mathematics
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Robert Cabral
Interim Dean of Student Learning
Physical Sciences & Career Education
rcabral@vcccd.edu

Good afternoon,

Your name was referred to us as a key person who is able to provide critical input on a new program. **Moorpark College** is developing an interdisciplinary program in **Data Science**. Launching in Fall of 2021, this interdisciplinary program will teach statistical, programming, and machine learning skills one needs to know to perform analytics. The program will also offer a number of different emphases in disciplines such as business, mathematics, and political science. This program can be completed in as little as two semesters.

Please join us for a brief advisory program meeting where we will provide an update of the proposed curriculum and program timeline. We are interested in having you attend to provide input and critical feedback as we are developing the program. Please join us next **Wednesday, December 16th from 8:30AM to 9AM** for a Zoom meeting. Thank you in advance and we look forward to seeing you next Wednesday!

Topic: Data Science Advisory Meeting

Time: Dec 16, 2020 08:30 AM Pacific Time (US and Canada)

Join from PC, Mac, Linux, iOS or Android: <https://cccconfer.zoom.us/j/91744070605>

Or iPhone one-tap (US Toll): +16699006833,91744070605# or +13462487799,91744070605#

Or Telephone:

Dial:

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+1 346 248 7799 (US Toll)

+1 253 215 8782 (US Toll)

+1 646 876 9923 (US Toll)

+1 301 715 8592 (US Toll)

+1 312 626 6799 (US Toll)

Meeting ID: 917 4407 0605

International numbers available: <https://cccconfer.zoom.us/u/acAtlz0sbO>

Or Skype for Business (Lync):

SIP:91744070605@lync.zoom.us

Dr. Brendan Purdy

Professor of Mathematics, Moorpark College

Robert Cabral

Interim Dean of Student Learning

Physical Sciences & Career Education

Moorpark College

Last	First	Position	Organization	e-mail	phone
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Staudt	Elliot	Research Staff Assistant	Mayachitra	staudt@mayachitra.com	

MC					
Alnaji	Loay	Faculty Computer Science	Moorpark College		
Cabral	Robert	Dean of Student Learning	Moorpark College		
Douglas	Christy	Faculty Hospitality	Moorpark College		
Garcia	Ed	Faculty CNSE	Moorpark College		
Hess	Trevor	CTE Counselor	Moorpark College		
LaFave	Drew	Center of Excellence Researcher	Moorpark College		
Nava	Michael	Faculty Mathematics	Moorpark College		
Park	Celine	CTE Job Developer	Moorpark College		
Pielaet	Dina	Marketing Director	Moorpark College		
Purdy	Brendan	Faculty Mathematics	Moorpark College		



Proposed Program & Curriculum:

Core Courses

- CS M10DS: Introduction to Data Science
- Math M15: Introductory Statistics
- CS M10ML: Cloud Data Science and Machine Learning (Capstone Course)

Example Emphases

- **Mathematical Data Theory**
 - Math M37DS: Mathematics & Statistics for Data Science
 - CS M10R: Introduction to R Programming
 - Math M122: Independent Study – Mathematics
- **Social Sciences**
 - Philosophy M07: Introduction to Logic
 - Political Science M09: Introduction to Political Science Research Methods
 - Political Science M122: Independent Study-Political Science OR Philosophy
 - M122: Independent Study-Philosophy
- **Hospitality Management**
 - HOSP M120: Hospitality Cost Controls
 - BUS M80: Internship in Business
 - One From Below:
 - HOSP M130: Introduction to Food & Beverage Management
 - HOSP M140: Introduction to Hotel Management
 - HOSP M170: Hospitality Supervision & Guest Relations
- There will also be emphases in Computer Science and Business.



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Last	First	Position	Organization	e-mail
Marson	Nyla	Data Infrastructure Management Data Analyst	Indus Technology	nmarson@industechnology.com
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Purdy	Brendan	Faculty Mathematics	Moorpark College	

AGENDA

ACTION SUMMARY

AGENDA	Notes	ACTION
1. Welcome and Introductions	B. Purdy and R. Cabral opened the zoom meeting and welcomed all invited guest and college representatives. After self-introductions, there was a brief discussion on the purpose of the meeting, why community colleges have advisory meetings, and the requirement of CTE programs engaging with industry in program development.	
2. Current Status of Program: 2.1 Student Success 2.2 Employment	B. Purdy discussed and led a discussion on the history and milestones of the faculty ad-hoc workgroup. The uniqueness of the proposed interdisciplinary curriculum and the proposed program completion timeline. There were noted comments by industry representatives (Jose Ochoa, Paula Hodge) of the current industry demand for a local program and the need to align curriculum to regional competencies. J. Ochoa appreciated and commented on the unique proposed cohort curriculum and how it ties-in to the local area needs. Handout: Proposed Program Pathway with Courses	
3. Industry 3.1 Current Status of Industry Workplace preparation: Does the Moorpark College program completely meet the current industry standard or industry need? If not, how can we partner to improve student learning outcomes and completely performance? 3.2 Are our completers prepared for the workplace? <ul style="list-style-type: none"> ▪ Able to utilize resources ▪ Effective Interpersonal skills ▪ Adequate knowledge base/Information ▪ Adequate basic skills: reading, writing, math, science ▪ Adequate time management and organization-prioritization skills ▪ Able to think critically, problem-solve ▪ Personal qualities-professionalism 	R. Cabral shared with the group the current Labor Market data. There was a continued discussion from the industry representatives on their support of the current courses selected for the program. J. Ochoa stressed although machine language courses are important, they should not overburden the course selections. Given the uniqueness of the program in our marketplace there was unanimous agreement this program would be competitive and essential for our area employers. There was a consensus by the committee to continue the development and offering of the proposed Certificate of Achievement.	

<p>3.1 What changes are occurring in the industry that will effect employer needs?</p>	<p>There as a continued discussion on the core objectives of the courses. The group agreed to look at completer competencies and skill sets at a future advisory meeting.</p>	
<p>4. Student Learning Outcomes</p> <p>4.1 Curriculum</p> <p>4.2 Instructional delivery :methods, scheduling, student access</p> <p>4.3 Teaching strategies-case studies-critical thinking</p> <p>4.4 Experiential learning: internships, work experience, service learning</p>	<p>B. Purdy and R. Cabral discussed the program submission process and approval milestones. It was agreed at a future meeting an assessment and review of instructional delivery and teaching strategies would be discussed.</p>	
<p>4. Program Plan for improvement</p> <p>4.1 College strategic direction</p>	<p>N/A</p>	
<p>7. Set next meeting time, place, date.</p>	<p>R. Cabral led a discussion of future meeting dates for the newly formed Data Science committee. It was agreed to provide the attendees a monthly progress report of the program development process. It was agreed to meet as an advisory committee once the program received local approval to discuss next steps, recruitment of additional industry representatives, and discussing possible electives to the program.</p>	

<p>HANDOUTS</p>
<p>Agenda Current Program Plan</p>
<p>Labor Market Information Contact List</p>