#17

COMPLETE

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Page 1: For Annual Planning/Program Review Requests AND Off-Cycle Requests

Q1

Technology Plan Year

2023-24

Q2

Title of Request

MATLAB License Augmentation

Q3

Location of Request

Cuyamaca College

Q4

Department

Engineering

Q5

Contact Person

Name	**Keenan Murray**
Email Address	**keenan.murray@gcccd.edu**

Q6

DescriptionPlease provide a brief description of the technology/software or technology project and its core goal(s).

We want to expand the number of MATLAB Licenses we have from 80 to 170.

We teach the use of MATLAB in ENGR-120 and it is a useful tool in other engineering courses, so we want to ensure students have access to MATLAB to continuing learning the software and help them be more successful in other engineering courses.

Page 2: Proposal Justification

Q7

Please explain how the technology or enhancement supports the strategic plan and impacts students, employees, the college, and/or the district.Which Strategic Plan priority (or priorities) are supported by this request?To access the Strategic Plan, please click here.

Eliminate equity gaps in course success (passing grade in class)

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Increase completion and eliminate equity gaps (graduating with a degree/certificate, or transferring)

Q8

How does the request support the above priorities?

MATLAB is the software currently taught in ENGR-120 and is an excellent tool to help students solve complex systems of equations and control hardware encountered in other engineering courses. By providing MATLAB licenses to students, we are increasing the options and tools we provide our students to be successful in their engineering courses. Currently we only have enough licenses for our ENGR-120 course. Hence, once a student completes ENGR-120, they lose access to MATLAB and
do not have access to an engineering tool unless they buy the software for themselves (usually $100 for a student license). With the requested license augmentation, we can provide MATLAB access in other engineering courses. The additional use of MATLAB will also prepare students to be more successful when they transfer to a university and will hone problem-solving skills useful in industry.

Q9

Who would this impact? Please select all that apply.

Students

Q10

What is the number of students or employees impacted per semester?

90

Q11

How would this impact the above group(s)?

Students will gain additional experience and expertise using MATLAB resulting in an improved skill set, additional tools to solve engineering problems when they transfer, and hone problem-solving skills useful in industry.

Q12

Does the technology support a state-wide initiative or is it a legal mandate or in support of a legal mandate?

No

Q13

If yes, please explain how the technology supports a state-wide initiative or is it a legal mandate or in support of a legal mandate?

Respondent skipped this question

Q14

Please be aware that projects, once approved, are typically scheduled 6 months to a year in advance. Consider the consequences if the technology/software is not implemented, upgraded or renewed.What are the consequences if the technology/software is not implemented/upgraded, or renewed? Examples: Security concerns, loss of FTES, mandates, accreditation, etc.

If the software is not funded, then students will learn MATLAB in ENGR-120 and will not have the opportunity to practice MATLAB skills in other courses before they transfer to university.

Q15

What is your preferred time for implementation?

Within a year

Q16

Tell us how the data you have supports the implementation of the technology. This can be qualitative or quantitative in the form of surveys, observations, SLO or other assessment data, institutional research data or other reports and data.

We do not have data, but an idea. We currently teach MATLAB in ENGR-120 emphasizing the importance of the software, but never provide students opportunities in other courses to apply and grow their MATLAB expertise. Hence, we want to reiterate the usefulness of MATLAB in other engineering courses to show students the importance of the software and grow their expertise.

Q17

How critical is this need in terms of supporting curriculum and services?

3

Q18

Please attach any supporting data/documentation using the "Upload" button below.

Respondent skipped this question

Page 3: COST ANALYSIS

Q19

Is the request for hardware or software?

Software

Q20

Is the request for new or an upgrade to existing technology?

Upgrade (replacing outdated technology)

Q21

Total initial cost of request: This includes hardware and software maintenance, licence, taxes, fees, shipping, storage, etc. Contact Bryan Cooper for assistance.

Expanding to 170 MATLAB licenses per year will cost $4,420, an increase of $1,620.

Q22

Funding Source:

General Fund

Q23

Please attach quote using the "Upload" button below.

2024.01.05_MATLAB%20Rewnewal_Quote%2013355077_170%20seats.pdf (46.5KB)

Page 4: Grant Funding Source

Q24

Please specify the grant that will fund the technology you are requesting.

Respondent skipped this question

Page 5: Evaluation Plan

Q25

Evaluationi. How do you plan to evaluate the technology after implementation?

We will collect data of which students use MATLAB in engineering courses besides ENGR-120 (where they learn MATLAB) and correlate it to student success. We will do this analysis on a class-by-class basis so we can also determine if certain engineering courses/topics benefit more from access to MATLAB.

Page 6: Type of Request

Q26

Is this an Off-Cycle Request (e.g., not part of the annual planning/program review process)?

No

Page 7: Off-Cycle Requests Only

Q27

What are the exigent circumstances and/or contributing factors that would qualify this request to be eligible for Off-cycle consideration? Please explain why this request cannot wait until the next annual planning cycle.

Respondent skipped this question

Page 8: Technology Request Process

Q28

How can the Technology Request process be improved for next year?

Respondent skipped this question

Page 9: Ready to Submit

Q29

Are you ready to submit your technology request?

Yes