I. Charge and Process

The Science & Engineering Library (S&E Library) Space Planning Advisory Task Force was established by CP/EVC Tromp and UL Cowell in fall 2017 to propose use options for space in the S&E Library, including interim to longer-term renovations of the library, that advance collaborative teaching, student success and access in STEM. The Task Force charge states that the general purpose and objectives of the Task Force are as follows:

- Articulate a set of guiding principles to optimize space use in the S&E Library, given the campus’s interest in promoting collaborative teaching, student success and access in STEM.
- Ensure that the principles developed are attentive to the needs of the increasingly diverse pool of UC Santa Cruz students enrolled in STEM.
- Assess and rank requests for space (both interim and long range), with priority given to those proposals that advance STEM education and student success, with careful consideration paid to the budgetary implications of each proposal.
- Make recommendations for the partial renovation of the upper level, which will be supported by a $5 million donor gift.

Process

The Task Force toured the existing S&E Library facility, and met approximately twice a month between November 2017 – April 2018. The Task Force considered current best practices for science and engineering instruction and library facilities, reviewed the 2014 draft S&E Library renovation study Concept Package, the S&E Library Business Case Analysis (dated January, 2017), and the December 11, 2017 letter to UL Cowell from CPSM P&B (Director Smith) and PPDO BAS (AVC Ferdolage) regarding partial renovation of the S&E Library lower level with a $5 Million budget, among other things.

The Task Force conducted (or sought) interviews and focus groups with deans, faculty, students, and student support groups engaged with STEM, including student support groups targeting under-represented, first-generation, and at-risk undergraduate students. SOE Dean Alex Wolf, PBSci Acting Dean Dave Belanger, Vice Provost for Student Success Jaye Padgett, Tracy Larrabee (faculty, Computer Engineering), and Lydia Zendejas (Director, MESA Engineering Program) attended a Task Force meeting for consultation. Additional faculty, STEM diversity program, and student perspectives were provided by the nine ladder faculty, two STEM diversity program directors, and two student Task Force members. Efforts to engage and consult with representatives of campus student organizations (Bioengineering Club, Information Systems Management Association (ISMA), Security Santa Cruz (SSC), Women in Science and Engineering WiSE) by the Task Force Chair were unsuccessful in bringing group representatives to a Task Force meeting for consultation.
Graduate and undergraduate student Task Force members, with Task Force members’ input, constructed and administered graduate and undergraduate student surveys of S&E Library student use and needs. In addition, the Task Force reviewed the draft report on faculty’s vision for the S&E Library, which presented results of the UCSC faculty survey conducted in Fall 2017 by IRAPS on behalf of the Senate Committee on the Library and Scholarly Communication (COLASC).

II. Task Force Guiding Principles and Recommendations

The Task Force developed Guiding Principles to optimize space use in the S&E Library, given the campus’s interest in promoting collaborative learning, student success, and access with a focus in STEM, but to include all students at UCSC. These are:

- Library space should support faculty and students by providing scholarly resources, space, staffing, and technologies to enhance research, discovery, and the formation of academic community.
- Library space should promote student success and engagement, particularly for undergraduate and graduate STEM students, while accommodating the needs of a diverse pool of students, including low income, underrepresented, and first generation students.
- Library space design should create a welcoming and inclusive environment that promotes equitable use of library space, resources, and programming to accommodate a diversity of user needs, consistent with universal design principles.1
- Library space should be designed with inherent flexibility to accommodate a diversity of user needs and technologies that may change over time.

III. Student and faculty surveys of S&E Library space use

The undergraduate, graduate, and faculty S&E Library survey results were reviewed by the Task Force, and used to inform Task Force recommendations for S&E Library space allocation and the partial renovation of the upper level. The results are briefly summarized below, and are summarized more completely in the Appendix [note that there was some concern among Task Force members about the low response rate for the undergraduate (328 responses) and graduate (159 responses) surveys, and the limited response from student groups to directly engage the Task Force]. The COLASC faculty survey is available directly from COLASC, while the complete student surveys are available via the links in the Appendix.

In summary, both undergraduate and graduate students ranked a Café, quiet study cubicles, and reservable group study rooms as their most or second most favored outcome of library space renovation; undergraduate students, but less so graduate students, also ranked favorably communal study space. Greater access to print collections ranked somewhat favorably by graduate students, but much less so by undergraduates.

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In the COLASC faculty survey responses to whether a renovated S&E Library should provide space for particular uses, the top responses (i.e., rating as must have/essential) favored providing additional space for quiet, individual study (36%), open a café (similar to the one in McHenry) (30%), create spaces that can easily and flexibly transition to meet future needs (30%), allocate additional space for browsable physical print collections (compared to the current allocation) (28%), and provide space for project-based, collaborative, interactive learning (28%) (percent averages computed from PBSci & SOE faculty data in Table 2 of the survey). It is noteworthy that in all use categories listed above, the majority of faculty respondents rated the listed uses as not needed or do not know (i.e., 64% - 72% combined).

IV. Proposals for space use in the S&E Library

The Task Force received seven written proposals from the academic divisions, student success programs and others for space use in the S&E Library to enhance student success and meet program needs. The Task Force’s Guiding Principles were applied to the review of proposals. The proposals are summarized below, followed by Task Force recommendations. These recommendations do not constitute formal space allocations. The CP/EVC and University Librarian should take these recommendations under careful consideration, in conjunction with the Strategic Academic Plan currently in development, to provide authorization for utilization of library space to the recommended programs [the complete proposals are provided via links in the Appendix]. In addition, the Task Force provides recommendations for the solicitation, review, and management of S&E Library space use proposals in the future.

Proposals and Recommendations

- Proposal from the Baskin School of Engineering, MESA Engineering Program (MEP) for ~2640 asf of space on the lower floor (former ‘Map Room’) to house student tutoring (~1980 asf), professional societies (~200 asf), student staff space (~200 asf), and MEP program staff space (~260 asf) on a pilot basis for a period of 3 years. MEP provides sustained academic support for underrepresented minorities (most of them first generation students) and women majoring in engineering programs.

  Recommendation: The Task Force supports this request and recommends that the SOE MEP program be allocated ~2640 asf in the ‘map room’ space on the lower level of the S&E Library for a period of 3 years, with the possibility of renewal of the space use agreement.

- Proposal to house the HSI-STEM SEMILLA Scholars collaborative HUB from the HSI Initiative, with addendum. The requested space includes the suite of cubicle space and one office located directly behind the Active Learning Classroom on the main level of the S&E Library. Space would be used to house one STEM counselor (in the office) to provide on-site advising adjacent to the academic support and tutoring-focused area located in the cubicle suite. The presence of the STEM advising counselor will complement the academic support delivered in the cubicle suite and make the space a comprehensive resource for students. The proposers envision utilizing the counseling office space to rotate in services and faculty to offer
drop-in services by the DRC, Slug Support and others, including faculty and teaching assistants in the higher failure rate STEM foundation courses. The proposers envision the space as a launching pad for students and a connection point to resources to increase STEM equity and reduce STEM attrition; activities will outreach and target Latinx and low income/EOP students, but will not be exclusive space.

**Recommendation:** The Task Force supports this request and recommends that HSI Initiative program be allocated ~1,200 asf in the requested space on the main level of the S&E Library for a period of 3 years, with the possibility of renewal of the space use agreement.

- **Proposal for office space for Research Development Staff, Division of Physical and Biological Sciences in partnership with the Office of Research, to enhance research development capabilities by hiring and housing three research development staff to work in the areas of physical, biomedical, and environmental sciences in general, and to help write large proposals to support STEM student success awards (IMSD, MARC, PREP), etc.**

  **Recommendation:** The Task Force does not support or recommend this proposal, since it would not directly serve or meet the needs of STEM students and faculty.

- **Proposal from Task Force member Kiyomi Kaneshiro (titled Proposal for a Virtual Reality set-up in the S&E library) for ~35 asf of shared space use in the Video Game Lab (S&E Library main level) to set up a virtual reality lab in the S&E Library.**

  **Recommendation:** The Task Force supports the request but recommended that the proposer contact reference librarian Christy Caldwell to arrange shared use of the space, since the proposed use of the existing Video Game Lab space falls outside the immediate charge of the Task Force.

- **Proposal from Task Force member George Brown (titled The S&E Print Collection: A Modest Proposal) to distribute the relict print collection in the S&E Library among all 59 stacks on the lower floor, in a manner that for browsing convenience, keeps the lowest and uppermost sub-shelves of each 30-foot shelf empty; the 59 shelves could all be moved to the upper level, kept on the lower level, or distributed between the upper and lower level.**

  **Recommendation:** While issues related to the S&E Library print collection are outside of the Task Force’s charge, the Task Force discussed the costs and benefits with distributing the current print collection from the current ~34 stacks to 59 stacks (i.e., partially filling the currently empty ~24 stacks), and the redistribution stacks on the lower and upper floors. The Task Force did not support, and does not recommend, redistribution of the print collection to occupy currently empty stacks, or the redistribution of the print collection to the upper floor.

- **Proposal for dedicated permanent space for Interfaith Prayer/Meditation, submitted by Jaye Padgett, Vice Provost, Division of Student Success.** The proposal is seeking permanent interfaith prayer and meditation space in the S&E Library to accommodate 10 to 20 individuals. The requested space would support contemplative time and meet the religious practice needs of the Muslim community at UCSC; space use needs would require access from sunrise to sunset daily, preferably even on weekends.
Recommendation: The Task Force recognizes and is sensitive to the need for dedicated prayer/meditation space on the UCSC campus, but does not feel that there is space in the S&E Library for this purpose. Hopefully, the on-going campus discussions about how best to serve this need will identify an appropriate solution.

- Proposal communicated by Task Force member Greg Careaga to establish Digital Scholarship Incubator (DSI) space on the lower floor of the S&E Library. The proposed DSI space builds on the success of the Digital Scholarship Commons (DSC in McHenry) and, in particular, the newly opened Visualization Lab (VizLab). Converting the old map room (~2640 asf) on the lower level of the S&E Library into an incubation hub focused on innovation and open experimentation would extend the model of the DSC into the S&E Library. In particular, this space would expand the ability to create, manipulate, and share 3D files and invite students to participate in the entire lifecycle of 3D and 360 content. By adding 3D scanning and 3D printing to the DSC list of services, the library staff would create a holistic pipeline of 3D data analysis that includes input (3D scanning and 360 video), digital output (VR, 360 video, and 3D models), and physical output (3D printing).

Recommendation: The Task Force was enthusiastic about the potential benefits of establishing DSI space in the S&E Library, as well as the positive role such a facility would play in the future of a technology-driven library facility. The Task Force recommends that before proceeding with this proposal that the Academic Senate (e.g., CPB) reviews who is the right owner/developer for various services that are at the nexus of IT and information. The Task Force also recommends that if pursued, the DSI facility be placed on the east side of the main level of the S&E Library, rather than in the requested lower level map room space. The Task Force felt that locating the DSI facility on the main (second) level with the Active Learning Classroom would more effectively highlight the technological draw of the facility around a broader theme of active and experiential learning and creation. Moreover, a proposal from the SOE MEP program for use of the map room space is recommended by the Task Force as a higher priority use of that space compared to the DSI proposal. Some comments were raised in the discussion about the number and discipline of students that would be served by the DSI facility, and the Task Force suggests that the proposers include in the proposal moving forward comprehensive information on student use of the similar facility in McHenry Library; this would address questions on the number of students across STEM disciplines that the facility would serve.

V. Broader process for assigning space in the S&E Library, soliciting proposals in the future, timeframe of space assignment, etc.

More broadly regarding the allocation of S&E Library space to specific, potentially exclusive, student support programs, the Task Force recommends that:

1. Allocation of S&E Library space to outside programs should not restrict near or longer term renovation of the S&E Library.
2. Allocation of S&E Library space to student support programs that exclusively serve targeted segments of the STEM student population should be balanced by library space use and programming that equitably serves the broader STEM student population.

3. Moving forward, the S&E Library administration in collaboration with the Office of Student Success, Graduate Division, and the Academic Senate should broadly solicit proposals for space use in the S&E Library; a program currently occupying S&E Library space can reapply for space allocation. Proposals should be solicited approximately two academic quarters prior to the expiration of existing S&E Library space use agreements. Proposal guidelines and evaluation criteria should be collaboratively developed by the University Library administration, Office of Student Success, Graduate Division, and the Academic Senate; proposals should address whether any modifications are needed in the space, what those modifications would be, and how the proposers plan to pay for them.

4. A written memorandum of understanding (MOU) be established between the program and library administration that makes clear the following:
   - The specific asf space allocation, expected and allowed uses of the space, tenant responsibilities for maintaining clean and safe spaces, and tenant access limitations relative to library operating hours.
   - Space allocation is not permanent. Space should be allocated for a 3 year period (or less), after which the space use will be evaluated for effectiveness in serving STEM students and promoting student success specific to the program, and STEM students more broadly.
   - The program be required to collect data on students served and student success emanating directly from the program’s activities within the S&E Library space, and those data summarized and made available to the S&E Library administration and the Academic Senate for review in subsequent proposals to renew space allocations, if requested.

Finally, the Task Force views an important goal as making library space assignments that promote the success and engagement of as many students as possible. With this in mind, it may be that rather than allocate space to particular programs, space allocation in the S&E Library should emphasize allocations based on space use for particular functions (e.g., student tutoring, advising, small group study rooms, etc.) that may be shared by more than one program, possibly with certain programs having priority for use of the space.

VI. Recommendations on the partial renovation of the S&E Library upper floor

As noted above, the Task Force reviewed the 2014 draft S&E Library renovation study Concept Package, the S&E Library Business Case Analysis, and the letter to UL Cowell from CPSM P&B (Director Smith) and PPDO BAS (AVC Ferdolage) regarding partial renovation of the S&E Library upper level with a $5 Million budget. These materials, along with the Task Force Guiding Principles and the student and faculty survey results, informed our recommendations below.

The Task Force supports the partial renovations of the upper level as proposed in Director Smith’s and AVC Ferdolage’s December 11, 2017 letter to University Librarian Cowell, with the understanding that the proposed partial renovations are within the budgetary scope of the $5 Million gift. Those partial renovations include new seating, tables and carrels, new electrical raceways, outlets, and wiring to provide each student with electrical power, new carpet, acoustical...
paneling, painting throughout, and modifications to HVAC ductwork and installation of additional HVAC units to improve ventilation.

The Task Force recommends that these improvements be guided by the general space use plan proposed by the Task Force, as shown in the charrette exercise figure in the Appendix, which was developed to provide a mix of quiet, group, and lounge seating study and workspace separated by visual display and acoustic sound-dampening installations to enhance the visual and acoustic setting; examples of visual displays could be installations of science and engineering-themed art, historic print materials, etc. Under the proposed space use plan, the partial renovation should strive to serve students with a diverse set of user needs by separating quiet from active space use, considering foot traffic patterns, providing electricity and WiFi to each student, and maintaining flexibility for multi-use configurations in some areas (e.g., in the proposed group study area shown in the southeast corner; see design charrette exercise figure in the Appendix, red card). Use of natural lighting, augmented by installed lighting should be optimized for the different space use needs. Furniture, lighting, and installation of visual displays should strive to create a space that is accommodating, inviting, and in the case of visual displays, also educational and stimulating.

The recommended renovation and space use plan would increase the seating capacity on the upper level by ~100 people over current capacity. The current upper level seating capacity is 368 people, and the occupant load based on current means of egress is 401 people. Our proposed plan would accommodate ~450 students, excluding the existing enclosed group study rooms, depending on exact space use and configuration of the open flexible use space. Note that, based on the number of exits, the maximum occupant load for the floor is 500 people.

The Task Force also considered reconfiguring space use on the lower level of the S&E Library in order to more optimally serve students and faculty. Given current resource limitations for lower level renovations, the Task Force recommends that the lower level of the S&E Library be modestly reconfigured to better support a mix of quiet study (with assorted cubicles along the northern margin of the floor) and collaborative group/active learning uses (with group study tables in the southern region of the floor), along with housing of the S&E Library print collection (see charrette exercise figure in the Appendix). Space in the ‘map room’ should be allocated to the SOE MEP program (a STEM diversity and student support group) for student advising and tutoring. The Task Force also recommends use of acoustic barriers between the quiet study area and the group tables/active learning area, as well as between group study tables to reduce distractions and noise interference between group tables and group vs quiet learning spaces. One possibility is to rearrange the existing print collection stacks to help create visual and acoustic barriers among and around the group/active learning tables. Currently there are ~29 filled print collection stacks, including ~4 stacks holding the East Asian Collection, and ~23 empty print collection stacks. Empty print collection stacks should be removed to provide space for the group and active learning tables. The Task Force also recommends that the East Asian Collection be relocated to a site outside of the S&E Library to generate additional space for student use.

The reconfiguring of lower level space should strive to optimize electricity availability, lighting, and WiFi in the group and quiet study areas. This lower level space use plan takes into account a diverse set of user-needs by separating quiet from active space use, and it considers foot traffic patterns, including the increased foot traffic to the SOE MEP student tutoring and advising
program that we recommend should occupy the map room space. Future renovation of the lower level should also include installation of compact shelving for print collections to generate additional space efficiency for student use and to provide space for expansion of the print collection if needed.

The recommended reconfiguration and space use plan for the lower level would increase the seating capacity by ~80 people over what currently exists, excluding the SOE MEP program use of the former map room and existing enclosed group study rooms. The current lower level seating count is 255 people, and the occupant load based on current functions is 386 people. Our proposed plan would accommodate ~335 occupants (excluding the SOE MEP program use of the former Map Room and existing enclosed group study rooms). Note that the maximum occupant load based on the number of exits is 1000 people.

VII. Beyond the Task Force’s partial renovation recommendations

The Task Force sees exciting potential in a fully renovated S&E Library facility, some elements of which are proposed in the 2014 draft renovation Concept Package. Based on the student and faculty surveys reviewed by the Task Force, there was clear support among undergraduates, graduates, and faculty for a renovated S&E Library offering a café and a mix of individual and group study space to better support individual, collaborative, and interactive learning. We recognize that reconfiguration of the lower level and partial renovation of the upper level, as recommended here, are only the first steps in this effort.

Given the central role the S&E Library will play in serving a diverse set of student and faculty user needs and supporting excellence in teaching and research in STEM fields at UCSC, the Task Force recommends that prior to capital planning and renovations beyond use of the $5 Million gift, the campus administration and Academic Senate perform aggressive outreach to engage the campus community. Undergraduate and graduate students could be engaged through SOAR, SUA, GSA and other student groups for input on renovation planning. Input via student, faculty, and broader campus community forums should be incorporated into the work of the appointed Building Committee and Executive Architect and associated staff on the design development for a comprehensive renovation project. Finally, the Task Force recommends that this report be integrated into the Library’s 10-year capital plan.
Science and Engineering Library Space Planning Advisory Task Force Members

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APPENDICES

Appendix 1: Summary of Science & Engineering Library use survey findings
1.1 Undergraduate survey
1.2 Graduate survey
1.3 COLASC/IRAPS faculty survey

Appendix 2: Proposals for space use in the S&E Library
2.1 Proposal from the Baskin School of Engineering, MESA Engineering Program (MEP).
2.2 Proposal to house the HSI-STEM SEMILLA Scholars collaborative HUB from the HSI Initiative, with addendum.
2.3 Proposal for office space for Research Development Staff, Division of Physical and Biological Sciences in partnership with the Office of Research.
2.4 Proposal from Task Force member Kiyomi Kaneshiro (titled Proposal for a Virtual Reality set-up in the S&E library).
2.5 Proposal from Task Force member George Brown (titled The S&E Print Collection: A Modest Proposal)
2.6 Proposal for dedicated permanent space for Interfaith Prayer/Meditation, submitted by Jaye Padgett, Vice Provost, Division of Student Success.
2.7 Proposal communicated by Task Force member Greg Careaga to establish Digital Scholarship Incubator (DSI) space on the lower floor of the S&E Library.

Appendix 3: Design charrette exercise, S&E Library 1st and 3rd floor layouts
3.1 Lower level
3.2 Upper level
Appendix 1. Summary of Science & Engineering Library use survey findings (with links to full survey results).

1.1 Undergraduate survey (organized by Task Force undergraduate student member Kelsey McDaid), conducted Winter quarter 2018.

328 responses, with evidence that some participants responded more than once.
- 19% 1st yr., 30% 2nd, 27% 3rd yr., and ~23% 4th and 5th yr. students
- 66% Physical and Biological Sciences Division, 25% School of Engineering, with remainder from Social Sciences and Humanities Divisions

How often students use the S & E library
- 80% use S&E Library daily or weekly, 14% monthly

Questions regarding types of use of library space (response options 1 (least) to 5 (most); Favored = percent responding 4 or 5, not favored = percent responding 1 or 2):
- 69% favored using S&E Library space for Café, 18% did not
- 67% favored space for silent study room, 13% did not
- 71% favored space for quiet (not necessarily silent) study with cubicles, 14% did not
- 67% favored space for communal study tables, 12% did not
- 68% favored space for reservable group study rooms, 14% did not
- 33% favored space for larger rooms for workshops, etc., 38% did not
- 43% favored space for pop-ups (tutoring, MESA, STARS, STEM diversity), 29% did not
- 52% favored space for multi-use for integrated student support unit housing STEM, ACE, LSS, ACE, EOP, STARS, etc., 22% did not
- 49% favored space to expand access to print collections, 24% did not, 27% neutral

Undergraduate student ranking of renovations in S & E Library:
Most favored:
- Café (35%)
- Quiet study cubicles (22%)
- Communal study (20%)
- Reservable group study rooms (11%)
- Greater access to print collections (~3%)

2nd most favored:
- Quiet study cubicles (27%)
- Reservable group study rooms (24%)
- Café (19%)
- Communal study (18%)
- Greater access to print collections (~2%)

3rd most favored:
- Reservable group study rooms (21%)
- Communal study (20%)
- Quiet study cubicles (20%)
- Café (15%)  
- Greater access to print collections (~6%)

Some common comments:
- More power/ outlets
- Whiteboards
- Reliable WiFi
- More books

1.2 Graduate survey (organized by Task Force graduate student member Kiyomi Kaneshiro), conducted Winter quarter, 2018.

159 responses
- 29% 1st yr. graduate, 36% 2nd yr., ~18% 3rd and 4th yr., remainder 5th+ yr. graduate  
- 73% PhD, 27% M.S.
- 53% Physical and Biological Sciences Division, 45% School of Engineering, with remainder from Social Sciences Division

How often students use the S & E library
- 37% use SEL daily or weekly, 28% monthly, 30% almost never

Questions regarding types of use of library space (response options 1 (least) to 5 (most); Favored = percent responding 4 or 5, not favored = percent responding 1 or 2):
- 61% favored using S&E Library space for Café, 23% did not  
- 57% favored space for silent study room, 13% did not  
- 67% favored space for quiet (not silent) study with cubicles, 10% did not  
- 35% favored space for communal study tables, 29% did not, 36% neutral  
- 60% favored space for reservable group study rooms, 16% did not  
- 34% favored space for larger rooms for workshops, etc., 36% did not, 30% neutral  
- 23% favored space for pop-ups (tutoring, MESA, STARS, STEM diversity) 35% did not, 42% neutral  
- 21% favored space for multi-use for integrated student support unit housing STEM, ACE, LSS, ACE, EOP, STARS, etc., 36% did not, and 43% neutral  
- 50% favored space for expanded access to print collections, 20% did not, 30% neutral

Graduate student ranking of renovations in S & E Library:

Most favored:
- Café (36%)  
- Quiet study cubicles (26%)  
- Greater access to print collections (16%)  
- Reservable group study rooms (13%)  
- Communal study (~5%)  

2nd most favored:
- Quiet study cubicles (26%)
• Café (20%)
• Reservable group study rooms (18%)
• Communal study (13%)
• Greater access to print collections (10%)
• Space for workshops (10%)

3rd most favored:
• Reservable group study rooms (29%)
• Quiet study cubicles (14%)
• Communal study (14%)
• Café (12%)
• Space for workshops (10%)
• Greater access to print collections (7%)

Comments:
• More power/outlets
• Books
• Whiteboards
• Graduate study lounge
• Reliable WiFi
• Extended hours

1.3 COLASC/IRAPS faculty survey, conducted Fall 2017

Top responses (rating as must have/essential; % avg. computed from PBSci & SOE faculty data in Table 2 of survey). Note: In all use categories listed below, the majority of respondents rated the listed uses as not needed or do not know (i.e., 64% - 72% combined).
• Provide additional space for quiet, individual study (36%)
• Open a café (similar to the one in McHenry) (30%)
• Create spaces that can easily and flexibly transition to meet future needs (30%)
• Allocate additional space for browsable physical print collections (compared to the current allocation) (28%)
• Provide space for project-based, collaborative, interactive learning (28%)

Key Findings (as summarized in survey):
• >40% of PBSci/Humanities/Arts/Social Sciences faculty (combined) and 29% of SOE faculty thought additional space for quiet, individual study was essential
• ~40% of faculty in four divisions and 18% of SOE faculty thought additional space for browsable physical print collections (compared to the present allocation) was essential
• ~30% of faculty across all divisions rated it essential to create spaces that can easily and flexibly transition to meet future needs
• The highest (most essential, 37%) goal for SOE faculty was to open a café at the SEL
The highest (most essential, 51%) goal for faculty in the Humanities/Arts/Social Sciences was to provide reference librarians to assist with research techniques/methods.

~73 -74% of faculty rated the top (must have/good to have) two goals/mission of SEL:
- preserve and curate a world class collection of scholarly sources and
- promote the academic success of undergraduate STEM students.

Additional two goals were less favored (44-45% of faculty rated as must/good to have):
- Facilitate learning and exploration in ways that are highly visible to other patrons of the library
- Create “collision space” where innovation and discovery can happen.

88% of faculty said that it would be good or essential to have avenues for broader faculty involvement in visioning and/or consulting, via:
- Direct and regular input (e.g., via an annual survey, focus group) should be provided to University Librarian and to COLASC (72-76%)
- Designating a faculty member in each department as a library liaison (62% of supportive responses)
Appendix 2: Proposals for space use in the S&E Library.

2.1 Proposal from the Baskin School of Engineering, MESA Engineering Program (MEP)

2.2 Proposal to house the HSI-STEM SEMILLA Scholars collaborative HUB from the HSI Initiative

2.2.1 Associated addendum to proposal in response to Task Force proposal review comments

2.3 Proposal for office space for Research Development Staff, Division of Physical and Biological Sciences in partnership with the Office of Research

2.4 Proposal from Task Force member Kiyomi Kaneshiro (titled Proposal for a Virtual Reality set-up in the S&E library)

2.5 Proposal from Task Force member George Brown (titled The S&E Print Collection: A Modest Proposal)

2.6 Proposal for dedicated permanent space for Interfaith Prayer/Meditation, submitted by Jaye Padgett, Vice Provost, Division of Student Success

2.7 Proposal communicated by Task Force member Greg Careaga to establish Digital Scholarship Incubator (DSI) space on the lower floor of the S&E Library
Appendix 3: Design charrette exercise, with Task Force recommendations of space use in current lower level and partially renovated upper level.

3.1 **Lower level**
3.2 **Upper level**