

2021-2022 Program Review - Equipment Requests

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Area	Program	Resource Request Title	Description of Resource Request	Estimated Cost	Previously Requested in Year(s)	Priority			
						Prog	Area	Comm	ET
AA	Chemistry	CHE2101	Replace broken hot plates. Hot plates are commonly used in our experiments and many are in poor and potentially dangerous condition with burnt power cords and other issues. Funds would be used to replace 24 hot plates.	\$5500		2		4	1
AA	Chemistry	CHE1901	<p>Purchase of Benchtop NMR (Nuclear Magnetic Resonance) Spectrometer for use in our Organic Chemistry labs to help students meet CSLO.</p> <p>Mastering the theory, operation and interpretation of NMR Spectroscopy is one of the CSLOs for our Organic Chemistry classes and is the most widely used analytical technique in chemistry (Sojka, Z., Che, M. J. Chem. Educ. 2008, 85, 934) as it allows one to determine the structure of molecules.</p> <p>To this point, students have worked on this topic by given sample data as NMRs have tended to be very expensive. (\$200,000 plus) and required significant maintenance. Unfortunately, it has been shown that students who lack hands on experience with a NMR perform worse on mastering NMR techniques than students with hands on experience (Wong et al World Journal of Chemical Education, 2016, Vol. 4, No. 3, 52-63).</p> <p>In recent years, benchtop NMRs have been introduced which are far cheaper than traditional NMRs and require no regular maintenance. The chemistry department would like to purchase a benchtop NMR to give students hand on training with this technique. The purchase of a NMR machine would allow students to collect their own data on molecules they have synthesized and then determine the structure.</p> <p>Cost \$43500 Maintenance: No regular maintenance required</p>	\$43500	2020-2021, 2019-2020	3	3	2	2
AA	Geosciences	GEO1803	<p>Laser Projector for ASC 140 that will have adequate brightness that will enable students to see visual displays (such as power point) without having to dim the room lights to a level where students can barely read what they are writing. Additionally, the projector should have a lens that can meet the dimensions of the existing painted wall. The current projector does not have the display intensity to adequately display the image.</p> <p>The ASC building was built to showcase modern equipment and facilities and using innovative technologies. We cannot currently display our full potential due to projector display issues. Geosciences utilizes ASC 140 extensively and highlights the 3D visualization screen during all lectures. The adjacent screen where power point lectures or other media are displayed is simply not allowing students to encounter an adequate learning environment. During the course of one instruction day, over 400 students are utilizing this room. Therefore the one-time cost is justifiable and the longevity of the light source is superior to current bulb sources. Lastly, the current projector can be resourced to another room.</p>	\$25,000	2020-2021, 2019-2020, 2018-2019	2		1	3

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AA	Engineering	ENG2103	Purchase two fused deposition modeling (FDM) 3D printers and carts. 3D printers are needed for project-based learning laboratory activities in the Engineering Graphics (ENGR V02) course. Using FDM, students will be able to prototype designs with methods used in professional engineering settings. Engineering graphics curriculum requires students to work in teams and demonstrate critical thinking skills using the engineering design process to provide hands-on solutions to engineering challenges.	\$26,500		4	6	8	4
AA	Art	ART2107	Display cases to exhibit both 3-D and 2-D student work. Three to four cases to display ongoing student work.	\$6,000-8,000	2020-2021	4	7	12	5
SA	EAC	EAC2101	EAC is requesting stand up desks for both the faculty and staff. When students attend counseling meetings it's important that they feel comfortable during the 30-60 minutes that they'll be seating in our office. If students are comfortable they are able to focus on the task at hand which is discussing their educational plan and goals at VC. The office staff is also meeting with students and attending to needs and doing this continually without time to get up and stretch. This request is for 8 stand-up desks to provide students with the best counseling/office experience which includes providing them with physical comfort during an appointment. The request would also assist in providing counselors/staff with a more ergonomic workspace allowing them to fully focus on the students' needs.	\$3000		1	1	10	6
BAS	Basic Needs	BNO1902	Purchase 2 workstations and 2 chairs for student use in the Basic Needs Office.	\$6000.00	2020-2021, 2019-2020	6	15	17	7
AA	Chemistry	CHEM2104	Purchase HPLC for student use in Organic Chemistry and General Chemistry Labs High-performance liquid chromatography (HPLC) is a technique used to split a mixture of compound in order to identify, quantify and purify the individual components of a mixture. It is widely used the pharmaceutical industry, forensic labs, and hospital settings. By obtaining an HPLC, the department would be able to to prepare students for these fields and bring in more real world applications into the classroom. Maintenance Costs: The cost includes a three year warranty. The manufacturer estimates the costs of consumables to run a sample at \$1.15 would equate to less than \$500 per year for our department.	\$52,200 (\$25,000 Approved for Funding)	2020-2021	6	4	9	8
AA	Athletics/Kinesiology	A/K2103	Fitness Equipment for Fitness Center, Indoor Weight Room and Outdoor Weight Room for use by all students in KIN/ICA classes.	\$50,000	2020-2021, 2019-2020, 2018-2019, 2017-2018, 2016-2017, 2015-2016, 2014-2015	3		12	9

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SA	Counseling	COU1906	When students attend counseling meetings it's important that they feel comfortable during the 45-60 minutes that they'll be seating in our office. If students are comfortable they are able to focus on the task at hand which is discussing their educational plan and goals at VC. This request is for 18 chairs and 18 stand-up deks to provide students with the best counseling experience which includes providing them with physical comfort during an appointment. The request would also assist in providing counselors with a more ergonomic workspace allowing them to fully focus on the students' needs.	\$12,500 (\$3,000 Approved for Funding)	2020-2021, 2019-2020	12	2	20	10
BAS	Facilities, Maintenance, and Operations	FMO2112	6 seater golf cart - For use on campus tours but also for transporting items around campus	\$15,000		12	22	21	11
BAS	Facilities, Maintenance, and Operations	FMO1905 Dump Truck	The current dump truck is 34 years old (1986) and is used to haul green waste to Santa Paula and garbage to the dump in Ventura weekly. It is also used to pick up wood chips, mulch and other items. Side panels have been rebuilt once already and are giving out. Repairs are required on a regular basis.	\$90,000	2020-2021, 2019-2020	6	10	14	12
BAS	Facilities, Maintenance, and Operations	FMO2111	Backpack vacuum for painter and HVAC tech and painter (total of 2) to clean HVAC units and prep areas for washing/cleaning	\$1,500		11	23	19	13
AA	Art	ART2001	Various equipment essential to the continued success of all 3-D students Potters wheels(3) 7,500 Silica Dust Vacuum 4,000 Diamond core tools(10) 2,000 Jiffy mixers(2) 150 3/D Printer/Program 8,000	\$16,850	2020-2021, 2019-2020, 2018-2019, 2017-2018	3	9	10	14
BAS	Facilities, Maintenance, and Operations	FMO2004 Portable Mobile Generator	Portable Mobile Generator equipped with it's own trailer, allowing for immediate emergency usage during power outages.	\$35,000	2020-2021	7	11	14	15
AA	Architecture, Drafting, and Construction Technology	ARC2101	Purchase of a Desktop Waterjet cutter. The purchase of a Waterjet cutter would allow students to develop additional skills that would benefit our current students and provide tools necessary for additional student recruitment. Waterjet technology is used in industry and would provide students with additional employment skills.	\$13,500		1	7	5	16
AA	Life Sciences	LIF2103	Our Autoclave in the biology department needs to be replaced ASAP. Autoclaves provide a physical method for disinfection and sterilization for material used in our microbiology lab. Autoclaves operate at high temperature and pressure in order to kill microorganisms and spores. They are used to decontaminate biological waste and sterilize media, instruments and lab ware. It is essential to have an autoclave if we want to teach microbiology labs on campus. We serve between 300-400 microbiology students per year and our nursing program depends on students completing microbiology.	\$61,000	2020-2021	3		6	In Process

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BAS	Financial Aid	FA1902	Purchase chairs for student work stations, front counter, pager room, and the financial aid lab. The condition of the chairs continues to deteriorate posing additional safety hazards as well as sanitary issues as the arm rests cannot be cleaned due to the condition of the chairs. Pictures attached to show the extent of the deterioration.	\$10,000	2020-2021, 2019-2020	1	9		
AA	Athletics/Kinesiology	A/K2109	Training room equipment to help prevent or rehab student athletes from injuries. Equipment includes one electric portable water station, one new ultrasound/stem machine and modular taping station	\$24,000	2020-2021, 2019-2020	9	1	16	
BAS	Facilities, Maintenance, and Operations	FMO2002 Replace 6 Custodial Golf Carts	Purchased 9 used golf carts in 2011. Approved to replace 3 in 2021, would like to replace the remaining 6. They have reached their useful life and have continuous maintenance issues impacting the departments response time.	\$50,000 (or approximately \$8,300 each)	2020-2021	9	13	18	
AA	Athletics/Kinesiology	AK2102	Athletics/KIN is requesting a new cart to move class equipment and supplies around for ICA and KIN classes in our outdoor spaces. This will give students access to equipment that can enhance their classroom experience	\$11,000 for the cart and \$1500 a year for maintenance		2		7	