Updated Agenda

ZOOM MEETING OF THE BUSINESS AFFAIRS COMMITTEE OF THE BOARD OF TRUSTEES Community College of Philadelphia Wednesday, October 20, 2021–9:00 A.M.

TO: Members of the Business Affairs Committee of the Board of Trustees

FROM: Jacob Eapen

DATE: October 19, 2021

SUBJECT: Business Affairs Committee Meeting

A Zoom meeting of the Business Affairs Committee is scheduled for **Wednesday, October 20, 2021 at 9:00 A.M.** The Zoom information for the Public Session follows:

Topic: Business Affairs Committee Meeting - Public Session
Time: Oct 20, 2021 09:00 AM Eastern Time (US and Canada)
Join Zoom Meeting
https://ccp.zoom.us/j/94133305651?pwd=Si9mdHB4VkJiK0xIOGViR1YyV3B2dz09
Meeting ID: 941 3330 5651
Passcode: 8029

PUBLIC SESSION AGENDA

(1) Adoption of the College's 2021–2025 Technology Plan (Action Item)

Background

The College embarked on a comprehensive process to determine how technology can systematically enhance teaching and learning as well as support administrative functions. This process involved a college-wide committee (Technology Coordinating Committee) of approximately 26 stakeholders, including faculty, classified staff, and administrators from the Main Campus and Regional Centers. This entire interactive effort led to the development of a 5-year Technology Plan.

This plan outlines key goals, objectives, and processes to ensure that all students, faculty, and staff benefit from technology and is aligned with CCP's strategic goals for the years 2021 through 2025.

This plan will provide several key outcomes:

- Provide a road map to the future for technology within CCP;
- Maintain focus on instructional needs:
- Ensure technology decisions are based on functional needs and consider the true cost of ownership; and
- Strengthen the culture of collaboration amongst all in the College community.

This Plan has also been developed with three principles in mind: <u>Usability</u>: The Plan must be used, understood, and embraced by all CCP stakeholders. It has been presented in a user-friendly format, allowing easy access to key information and specific details. <u>The Technology Plan Is a Living Document</u>: Technology evolves rapidly, and CCP's needs, opportunities, and constraints are subject to change, so the Plan includes provisions for regular and annual reviews, as well as updates. <u>The Objectives Contained in the Plan Are Realistic</u>: Objectives identified in this Plan have been extensively reviewed to ensure that they are: (i) financially and resource realistic; (ii) reflective of CCP's vision; and (iii) aligned to student achievement. Please refer to Attachment A.

Recommendation

The staff recommends that the Business Affairs Committee recommend to the full Board the adoption of the 2021–2025 Technology Plan.

(2) Three-Year Capital Budget Plan (Information Item)

The staff will provide an overview the three-year Capital Budget Plan. <u>Attachment B</u> contains the College's proposed capital budget three-year plan for fiscal years 2021-2022, 2022-2023 and 2023-2024.

(3) <u>Ernest Bock & Sons, Inc. Change Order One for the Career & Advanced Technology Center Project (Action Item)</u>:

This change order is the result of intumescent fireproofing for the structural steel; additional structural steel required for exterior walls and additional structural blocking; electrical raceways for upgraded technology required by the College; sanitary tie-in due to incorrect documented City plans; and unforeseen conditions discovered during demolition and excavation. See breakdown of costs in <u>Attachment C</u>.

The total change order totals \$206,239 which will increase the total contract from \$16,222,000 to \$16,482,239, an increase of 1.27%.

Staff request that the Committee recommend to the full Board the approval of the Ernest Bock & Sons, Inc. Change Order One for the Career & Advanced Technology Center Project in the amount of \$206,239.

(4) Agreement with the Department of Collegiate and Technical Education (DCTE) (Action Item):

The Community College of Philadelphia has negotiated an agreement with the Department of Collegiate and Technical Education (DCTE), Government of Karnataka, India. The agreement will outline the collaboration to provide opportunities for Indian students to complete the Cyber Security Program with an associate's degree through CCP's Corporate College.

The Cybersecurity degree program will be offered to a cohort of 24 students, chosen by the DCTE. The program will be offered in three (3) parts.

- Part I (November, 2021-August, 2022). DCTE students will complete placements tests, and introductory courses such as English as a Second Language (ESL).
- Part II (September, 2022-August, 2023). Students will complete prerequisite and Cybersecurity degree coursework online.
- Part III. (September, 2023-August, 2024). Students will attend CCP Inperson and complete the remaining Cybersecurity coursework on the main campus.

Tuition for the DCTE cohort program will be offered at contracted rates for cohorts:

- 1) \$11,448 per online course with a maximum class size of 24;
- 2) A minimum of \$11,448 per on-site course with a maximum class size of 24 (class fees for Part 3 may be increased subject to agreement between the Parties, but shall be at least \$11,448);
- 3) \$9,540 per ESL course with a maximum class size of 20; or
- 4) A minimum of \$159 per credit per student for mainstream courses.

The contracted rates are equivalent to the in-county rate. Because they are contracted rates paid by DCTE and not individual students, the rates do not need separate approval from the Pennsylvania Department of Education and only need Board approval. The program will have a minimum of 18 courses.

This partnership is a gateway to other program offerings in the Karnataka region and India more broadly, which will prove fruitful to the college and its international enrollment goals.

Staff requests that the Business Affairs Committee recommend to the full Board the Agreement with the Department of Collegiate and Technical Education (DCTE).

(5) <u>Next Meeting</u>:

The next scheduled meeting of the Business Affairs Committee and Executive Committee of the Board of Trustees will be held on Wednesday, November 17th at 9:00 A.M.

JE/Im Attachments

c: Mr. Jeremiah White

Dr. Donald Generals

Dr. Pam Carter

Ms. Marsia Henley

Dr. Samuel Hirsh

Danielle Liautaud-Watkins, Esq.

Mr. Gim Lim

Mr. Vincent Panjikaran

Mr. Derrick Sawyer

Mr. Vijay Sonty

Mr. Tim Trzaska

Victoria L. Zellers, Esq.

ATTACHMENT A 2021-2025 Technology Plan



Executive Summary

The Community College of Philadelphia Technology Plan 2021-2025 is constructed using guidance from the 6 Pillars for Strategic Growth, Guided Pathways strategies, and the Classroom Technology Plan, as well as input from the members of the Technology Coordinating Committee and the college community.

The purpose of the Technology Plan is to establish and communicate 1) technology guidelines and standards, 2) a set of prioritized goals for technology, and 3) a set of action steps that will help direct the Community College of Philadelphia as we prepare for the future. This plan contains recommendations for technological enrichment within the College that will occur during the years 2021 through 2025.

The Technology Plan is presented in four sections, starting with a brief introduction. Then overviews of four operational units having major responsibility for critical technology resources are provided. The status of technology at the College follows, organized into seven categories of technology elements crucial for meeting the strategic, operational, teaching/learning, and relational demands of the College. The final section of the CCP Technology Plan 2021-2025 presents six Technology Goals, each based on a CCP strategic pillar, with accompanying high-level action items and the primary units responsible for achieving them.

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Introduction

The Community College of Philadelphia Technology Plan 2021-2025 is constructed using guidance from the 6 Pillars for Strategic Growth, Guided Pathways strategies and the Classroom Technology Plan as well as comments from the members of the Technology Coordinating Committee and the college community.

- Student Experience
- Community Engagement
- World Class Facility
- Workforce Development
- Fiscal Stability and Sustainability
- Diversity, Equity and Inclusion

The purpose of the Technology Plan is to establish and communicate 1) technology guidelines and standards, 2) a set of prioritized goals for technology, and 3) a set of action steps that will help direct the Community College of Philadelphia as we prepare for the future. This plan contains recommendations for technological enrichment within the College that will occur during the years 2021 through 2025.

This plan begins with a brief highlight of the current status of technology at the College, focusing on seven major technology elements that are crucial for meeting the strategic, operational, teaching/learning, and relational demands of the College. The intention is to state the context in which the following technology guidelines and standards, prioritized goals, and action items are recommended. The seven major technology elements include:

- Technology Policies, Guidelines and Standards
- Technology-involved Professional Development
- Emerging Technology
- Electronic Workflow, Hardware and Software
- Administrative Systems
- Infrastructure and Data Security
- Data Reporting

The next section provides a brief overview of three operational units of the College responsible for critical technological resources that serve foundational needs across the institution. The seven major technological elements that serve as an organizing structure for the Technology Plan are then described. Technology Goals for 2021-2025 are then presented.

Operational Units Responsible for Critical Technology Resources

<u>Information Technology Services</u>

The Information Technology Services staff at CCP is under the direction of the Business and Finance Division. This division, led by Vice President Jacob Eapen, has a broad set of goals and aspirations that are aligned with the College's Strategic Plan.

The ITS staff member team is comprised of support personnel for desktop, network, ERP applications and telecommunications. Amassing degrees and certifications that support all the current and future technology that drive teaching and learning.

The College has over 4,500 desktop workstations that provide access to Microsoft Office, the Internet, and teaching/learning discipline-specific specialized applications. These student classroom and open lab areas also house printers and copiers that allow for printing. The faculty offices are supported by desktop computers and centralized printing, as are the administrative areas. All desktop systems are refreshed based on the software demand of the area.

The core network farm which supports our Active Directory environment is on-prem and comprised of multiple virtual environments that provide for fail-over functionality. In addition, the Enterprise Resource server farm is also housed on-prem and is comprised of multiple virtual environment servers for fail-over functionality. All servers are refreshed on a 4-year cycle.

The data network is based on industry standard routers and switches, which are kept vibrant through a refresh cycle that provides for current technology support for wired and wireless systems.

Video conferencing is now supported through group meeting software, webcams and speaker phones. Multiple conference bridges exist for use by all departments and divisions.

Flexible Learning Options and Academic Technology

The Flexible Learning Options and Academic Technology (FLOAT) staff at CCP is under the direction of the Academic and Student Success Division, led by Vice President Dr. Sam Hirsch. The FLOAT team supports online learning, academic technology, and multimedia services at the College.

Classroom technology is expanding and now includes the use of interactive systems as we move beyond the projector and screen approach. This interactive approach allows for everyone to participate.

Students encounter and utilize technology continually, from their initial contact with the college, in classrooms and labs, all which helps support their success. Additional student support is provided using Internet-based services. These include enrollment and registration applications and routing, and transcript requests.

Faculty have access to the Canvas course management system. Students can access the system from home and from numerous locations on campus, including the open computer labs and via mobile apps. Students also use a variety of devices for online test-taking and research for their courses. Most classrooms are now "smart classrooms" utilizing a networked computer with a digital projector, presenter, and sound system. Technology-based courses such as Digital Media, Computer Aided Design and Drafting (CADD), and Computer Science (programming) use personal computers extensively to simulate their work environments. Hardware and software used in these courses are periodically assessed and upgraded to meet current industry standards, as expected by the faculty and students in these courses.

Community College provides full-time faculty members with an office computer and the Microsoft Office Suite and other software as needed. Adjunct faculty have access to similar equipment in a designated workspace. Faculty use the Banner system for student and scheduling information, class rosters, and for final grade entry.

Academic Technology provides instructor technical support. Many tutorials are online and staff are available for personal instruction and various training sessions provided by FLOAT.

Multimedia Services provides services for the College and external constituents including: providing technology support for events at the college; design, installation, implementation, and maintenance of display technology; and the development of media and educational TV in support of instruction and for airing on CCPTV.

Institutional Research

The Institutional Research staff at CCP is under the direction of the Enrollment Management and Strategic Communications Division, led by Vice President Dr. Shannon McLaughlin Rooney. The Institutional Research staff member team provides comprehensive data analytics to support:

- Data stewardship and integrity
- Institutional planning
- Evaluation of effectiveness
- Informed decision making
- External accountability, and
- Collaborative research.

The staff provide quality data and reports to the College community, collaborate with college leadership and faculty on analytical projects in support of student success and institutional effectiveness, and to provide the data and reports needed to meet state, federal, accreditation and funding compliance requirements.

<u>Marketing</u>

The Marketing staff at CCP is under the direction of the Enrollment Management and Strategic Communications Division, led by Vice President Dr. Shannon McLaughlin Rooney. The Marketing staff member team supports the web presence and associated technologies at the College, which include three online properties: www.ccp.edu, www.ccp.edu, www.myccp.online, and myccp.ccp.edu.

www.ccp.edu

The College's homepage and main domain, sometimes referred to as the "College's Marketing Site." The pages at www.ccp.edu are for the express purpose of introducing the College to interested parties such as, but not limited to, prospective student and parents, alumni, donors, government officials, and prospective employees. The site's goal is to provide information about the College and inform the

public. The site is controlled by the Marketing department. The College catalog and other mandatory public information is posted on this site.

www.myccp.online

Sometimes referred to as the "Internal Site," this domain holds site sections that cater to those that have business with the College: students, faculty, staff, regulators, etc. The pages and the information within are directly related to one's time at the College. Department pages, governance, policies and procedures can all be found on this site. Information that is public, or semi-public, which does not require a user login for security, is placed on this site and sections. The College's Marketing department maintains the site, but each department controls the content of their site sections. Some tools are built here, and minor crosslinking from ccp.edu to myccp.online is present. The site's navigation changes per a self-select or audience selection for each department to either student- or staff-focused.

myccp.ccp.edu

This domain is the gateway to sites and services that are business-oriented, and is the gateway to the College's Single Sign On User Authentication. Once the user is verified, they are taken to a domain that is commonly referred to as "The Portal." From the portal, the user has access to the business tools and services maintained by the College Information Technology Services department. The services behind the portal tend to deal with personal identifiable information and require various security layers. Students will interact with these services to register for classes, check grades, access email and check their academic progress. The sites and services behind the portal may have different URLs, but the proper way to access these services is via the login that can easily be accessed from https://myccp.ccp.edu.

Major Technology Elements at CCP

The Technology Coordinating Committee, the College-wide governance standing committee at the College, is responsible for recommending College-wide technology guidelines and standards, as well as developing and maintaining a College-wide technology plan. To effectively carry out these responsibilities, seven major technology elements have been identified as a means of organizing, planning for and monitoring College technology.

Technology Policies, Guidelines and Standards

Policies

The following College Policies address technology or technology-related resources or activities at the College.

Policy Governing the Use and Duplication of Software (Memorandum #305)
Policy for Responsible Computing (Memorandum #306)
Acceptable Use Policy for Interactive Systems (Memorandum #307)
Hardware and software Support Policies On-campus (Memorandum #309)
Identity Theft Detection and Prevention (Memorandum #312)
Standards for Distance Education Courses (Memorandum No. 14)

Records Management and Retention Policy (Memorandum #313)
Sign-Out Procedure for Long-Term Audiovisual Equipment (Memorandum #155)
Policy on Inclusion on Digital Course Materials (Memorandum #220)
Chosen Name Policy (Memorandum #360)

Guidelines and Standards

Guidelines and standards are established or recommended in the following areas.

New construction or facility upgrades

College Facilities and the ITS department reviews standards for new classrooms, offices, and other meeting spaces annually.

Accessibility

All technology purchased and implemented within the college should meet the minimum standard outlined by WCAG 2.0 AA, guidelines for accessibility. All distant education classes are reviewed for compliance with accessibility requirements.

Disaster Recovery and Backup

The Information Technology Services Department uses a UPS (uninterrupted power supply) battery backup for the on-premise datacenter to allow operation in the event of a power failure. The server operating system is patched at minimum every quarter and physical access to datacenter is restricted to ensure safety and security of hardware, software, and information. College ITS staff work in collaboration with Facilities staff to address on-site and off-site backup and disaster support of campus systems.

To address the requirement for off-site backup and disaster recovery, the campus uses IBM Spectrum products for warm and cold backup and has engaged an external resource to support backup and data retention. Critical campus files for faculty and staff are accessible within 24 hours in the event of a complete loss of on-premise servers. The backup and recovery plan will be tested at least twice a year to ensure recovery of data is possible.

The Disaster Recovery and Recovery Plan (DRRP) can be found via the following link https://bit.ly/3oDUcLK

Bring Your Own Devices (BYOD)

Faculty, staff, and students have the capability to connect to the college WiFi. For security, WiFi access is restricted to the Internet. No internal WAN connection is permitted via WiFi.

Personally Identifiable Information (PII)

The data that contains information that is regarded as PII is maintained behind our college Firewall. PII data that is held in system that are CLOUD-hosted or SaaS are required to meet standards of security in order to be used by the college.

Interest Free Computer Loans

Interest free loans for faculty and staff purchase of computers are available through the College. Additional information is available at this website: http://path.ccp.edu/vpfin-pl/CompPurchAsstPlan.pdf

Social Media Guidelines

Information regarding social media guidelines for the College can be found at this link: https://myccp.online/division-marketing-and-communications/brand-guidelines/social-media .

Refresh Model

Equipment Type	Cycle
Computer Lab (General Use)	5 years
Computer Lab (Advanced)	3 years – upgrade or replace as funding allows
On-Premise Servers	5 years
Staff Laptops/Desktops	5 years – See below regarding mid-cycle upgrades
Network Infrastructure	5-10 years – depending on physical layer (copper, fiber, wireless) and network load, congestions and equipment obsolescence.
Technical Staff Computers	2 years – machines are more heavily used and perform advanced functions (virtual imaging, test environments) directly related to providing service to the rest of the campus. Upgraded machines will be cycled to other uses.
Classroom AV infrastructure wiring	10 years
Projectors Updated	5 Years
Phones (VoIP)	As needed when phones are end-of-life (EOL) or as a result of a upgrade
Printers	As needed
Interactive Touchscreen Displays	10 years

The above recommendations do not preclude mid-cycle upgrades such as improvements in RAM or HD capacity. Whenever possible, refreshed computers will be cycled to other uses. For example, refreshed staff computers may be used to expand student computer access or support CIS classes.

Technology Professional Development

Organizational processes and the work conducted by a majority of employees across the college require or are enhanced by the use of technology. Therefore, it is critical that all employees whose work can benefit by the use of technology have access to technology-related professional development. A primary purpose of professional development in technology related areas is to enable the College to ensure high levels of student success through the provision of highly effective and efficient academic and administrative services throughout the College.

The Flexible Learning Options and Academic Technology division provides professional development for faculty and staff in the areas of online course development, the learning management system, open educational resources, and other academic technologies.

The college uses surveys and other assessment tools to examine the employees' technological needs to ensure that the faculty and staff are receiving the essential professional development to prepare student for competing in a global economy.

The Human Resources department provides access to professional development opportunities for all employees through an online portal. Information Technology Services coordinates and provides basic employee training on the SIS/ERP system and related reporting tools.

Emerging Technology

As technology continues to develop, improve, and diversify in its application, CCP staff and faculty are encouraged to request and implement technology tools in support of increased student success. Hands on, tactile experience is a critical component of the learning process. We need to provide students real world access to software and cloud-based solutions. As the world has migrated to Cloud and SaaS solutions, it's increasingly important for CCP to offer experiences that align with the real world.

Electronic Workflow, Hardware and Software

The College strives to reduce paper and inefficient processes by moving to electronic methods of providing services, including further review of administrative hardware and software to support innovation. Reviewing processes for improvement through electronic workflows, and implementing the associated hardware and software, should be an ongoing activity with yearly recommendations.

The College should look for opportunities to use Employee and Student Self-Service and strive to keep self-service actions consistent in look and feel.

The intent is to utilize our current administrative systems to their maximum potential where we are not already doing so. To that end, we should:

- ensure current processes mapped out in detail, kept up to date, and reviewed periodically.
- ensure annual review of processes, including a way to collect and review suggestions or pain points, duplications of efforts, etc., in order to identify and prioritize improvements.

Administrative Systems

Technology is used extensively by administrative and student services departments to meet the needs of the College community. All Enterprise-wide applications are accessible via MyCCP or through SSO (single sign-on) authentication. This means that access to each application is driven by who you are as an individual and what access rights you have to each system. For a detailed listing of applications available, please click here (here will take people to a link/page that has a listing of applications available).

Our SIS/ERP integrated database is used for all of the major district functions, such as Human Resources/Payroll, Finance, Financial Aid and Student Records. This database feeds information to all other systems, such as the learning management system, student retention and success systems, and customer relationship management systems, and is the source of state and federal report content and

institutional research data. Faculty, staff and administrators utilize the SIS/ERP extensively on a daily basis to perform necessary administrative functions. Students interact with the SIS via MyCCP or the mobile app when completing transactions such as registration, payment and financial aid, for example.

The administrative systems in use are reviewed periodically and updated to reflect business needs and emerging trends.

Infrastructure and Data Security

Technology Infrastructure

Ensuring current and future computing requirements are realized

- As the needs for technology on campus continue to change, our ability to provide a
 technology infrastructure that is reliable, scalable, and flexible is of paramount
 importance. An adaptable and agile infrastructure upon which Information Technology
 can deliver services to the College community will ensure our ability to meet growing
 user needs and support strategic goals of the College. ITS selects projects for investment
 that support the continuous improvement and operational efficiencies of our
 infrastructure while anticipating the future technology needs of the entire College
 community.
- Network and system security with regards to infrastructure is an ongoing challenge which requires continuous improvement.

Identity Access Management

ITS will continue our efforts to implement and leverage federated identity services to
enable and support secure collaboration with our colleagues both on campus and at
other institutions and improve access to applications and systems for members of the
College community. Following the Identity and Access Management (IAM) strategy and
architecture developed for the College, we will continue to adopt and implement
initiatives including Multi Factor Authentication (MFA) and Single Sign On (SSO).

Virtualization and Cloud-Based Technologies

- Virtualization and cloud-based computing efficiencies continue to influence and shape our ability to improve service and support delivery to our users.
- ITS will continue to achieve efficiencies in providing IT services by leveraging virtualization and cloud-based technologies where and when appropriate. We will explore the use of Virtual desktop infrastructure –(VDI) and IaaS (Infrastructure as a Service) options, where appropriate and cost-effective. We will continue to build out our SaaS (Software as a service) cloud solutions and continually evaluate the efficiency and viability of such options and continue to expand the use of virtual servers in the Data Center in support of the College's strategic initiatives as appropriate.

Capacity Planning and Continuous Improvement

The growth and expansion of College support services and applications require an
ongoing commitment to investments in our infrastructure. A thoughtful review of, and
measured planning effort for, infrastructure investments will ensure an efficient,
reliable, future-proof and scalable technology infrastructure.

Enterprise Infrastructure Applications

• Enterprise applications are the key components of infrastructure services provided to the College community. Employees can find more information at this link: (To Be Added)

• Enterprise and administrative applications at Community College of Philadelphia need to subscribe to the following design principles:1) cloud-based preferred; 2) user-centric interfaces; 3) MyCCP authentication; 4) accessible to all users; 5) web-based; and 6) an architecture that values analytics, agility, and integrated service focus. All departments must review business critical problems and work to develop possible solutions with ITS before beginning a new solution investigation. ITS is then able to consult on possible existing solutions that can be leveraged to meet the need or to assist with evaluating how a new solution would fit within the College's technology ecosystem and the workload pipeline to ensure that value is fully realized in a timely manner. Our administrative systems must facilitate the core mission of the College, provide appropriately secure access to services and information when they are needed, and be as frictionless and adaptable as possible (easy to use, find, develop and support.)

Mobile Infrastructure

- The demand for location and device-independent access to CCP applications, services, and information by members of the College community are continually driving our efforts to deliver new and improved services.
- The MyCCP Mobile app is available to all employees and students. Several modules, such as the Learning Management System courses, and grades, required authentication and access to person specific data. There are other additional vendor interactive services such as admissions, registration and add/drop and the campus MazeMap that are now available.

Data Security

- Data continues to be one of our strategic assets. Our commitment to data security and integrity is strongly supported by all College senior management. The protection or stewardship of data is the responsibility of all members of the College community.
- The Data Breach / Security Committees evaluate the security of Personally Identifiable Information (PII) across the college and provide recommendations for improvements based on best practices.
- ITS will continue to work to strengthen the overall data security posture by enhancing College business practices so that consistent data security practices are in place throughout the community.

Data Reporting

Data available for College-wide reporting purposes are stored in multiple systems across the College. Generally, there are three ways to access reports generated from this data – through scheduled reporting, through self-service portals or dashboards, or through a process of requesting a customized report from the appropriate unit.

Scheduled Reports

There are College units that provide data reports to organizational members at regularly scheduled intervals. For example, the Budget and Business Services unit provides regular budget reports that are

distributed to appropriate budget managers across the College. These reports include quarterly budget reports for college units and reports that support the annual budgeting process.

Other examples of scheduled reports include:

- Master schedule provided through the MyCCP portal
- ARGOS/Tableau Enrollment
- Device Loaners
- Helpdesk

Self-service Portals and Dashboards

Institutional Research maintains a set of dashboards available to the public that report on student-related data at the College. These dashboards include:

- Enrollment Dashboards,
- Graduation Dashboards,
- Academic Outcomes Dashboards, and
- Student Life and Other Dashboards.

The link to the dashboards maintained by Institutional Research is: https://www.myccp.online/institutional-research/facts-stats.

Master schedule, enrollment, and financial data from the SIS/ERP system can be accessed through reporting software maintained by the Information Technology Services area. Access permission must be granted, and training is required before employees are able to access this reporting tool.

The College-wide assessment system houses assessment data from academic units and administrative, educational and support units. This system includes a reporting tool that provides various reporting options for running assessment reports. Access permission is needed for the assessment system and training is required before employees are able to access this reporting tool.

Requesting Customized Data Reports

Customized data reports can be requested from specific units of the College. Customized data report requests should reflect data requests where the data is not already available through a scheduled report, self-service portal or dashboard, or reporting tool. Customized data report requests can be one-time requests, or a request to create a report that can be run on demand using a data reporting tool.

Add list of where and how to make requests??

TECHNOLOGY GOALS for 2021-2025

As stated in the College 2017-2025 Strategic Plan, overall success will be achieved by reaching three broad goals by 2025:

- 1) Increase credit and non-credit enrollment by 20%
- 2) Double the graduation rate.

3) Double the number of opportunities for students to enroll in career programs resulting in the attainment of marketable skills leading to placement in the local and regional economy.

The technology goals for 2021-2025 support achieving these goals through enabling attainment of the strategic pillars outlined in the College's strategic plan, as it has been updated as a living document. These pillars include:

- The Student Experience
- Workforce Development, Readiness and Economic Innovation
- External and Internal Community Relations
- World-Class Facilities
- Fiscal Stability and Sustainability
- Diversity, Equity and inclusion

Technology Goal 1 – Provide access to technology and technology services that support the student experience.

Action Items	Unit(s) Responsible
Develop and deploy a data analytics strategy to enable data informed decision-making in all areas of enrollment management.	IR, ITS, AASS, EM/SC
Investigate and implement technology solutions to facilitate enhanced communications and interactions with students, advisors and counselors.	ITS, EM/SC, AASS
Research, evaluate, and promote innovative uses of academic technology, including the development of roadmaps to guide faculty and student adoption of innovative technologies.	ITS, AASS
Fully implement the College assessment tool to enable efficient and effective assessment data collection, analysis, reporting, and close-the-loop activities.	IR, ITS, EM/SC, AASS
Research and implement re-launch of the College website to improve stakeholder communications and ultimately enhance the student experience.	EM/SC, ITS

Technology Goal 2 – Provide access to technology and technology services that support workforce development, readiness, and economic innovation.

Action Items	Unit(s) Responsible
Implement systems and procedures that enable broad access to	Workforce, M/SC, AASS, ITS
industry and employer data in support of workforce programs,	
curriculum development and maintenance.	
Review and refresh as needed Career Connections technology to	WEI, ITS
effectively support student access to up-to-date career data,	
effective employer-student connections, and student	
employment and other work-based learning experiences.	

Technology Goal 3 – Provide access to technology and technology services that support external and internal community relations.

Action Items	Unit(s) Responsible
Develop and implement a strategy for managing the relationships	B&F leadership, ITS
between ITS and its user base across the College.	
Fully implement a scheduling system to provide college-wide	EM/SC, ITS
calendaring and event optimization.	

Technology Goal 4 – Provide access to technology and technology services that support having world-class facilities at the College.

Action Items	Unit(s) Responsible
Audit existing ITS infrastructure, services, and support to	B&F leadership, ITS
determine current status relative to industry standards and	
best practices to define and implement plans for improvement.	
Develop a BYOD strategy for integrating personally owned	ITS, General Counsel
devices through a secure methodology to the college WAN.	
Ensure secure computing and networking environments	ITS
utilizing technology, training, and procedures within the	
College and through remote access.	
Implement college-wide hardware and software technology	Purchasing, Budget, ITS
purchasing process to ensure compatibility and avoid	
duplication of competing products across the enterprise.	
Develop a collaborative process to evaluate existing	Purchasing, ITS
applications and recommend standardization on core product	
functionality independent of areas.	
Research, evaluate, and implement Virtual Desktop	ITS
Infrastructure (VDI) and cloud computing strategies to support	
classroom and administrative technology needs.	
Annual report examining two or three technologies	ITS, TCC
recommended for College review and consideration.	

Technology Goal 5 – Provide access to technology and technology services that support fiscal stability and sustainability.

Action Items	Unit(s) Responsible
Expand the use of Document Imaging to assist in managing,	ITS
searching, and archiving digital assets.	
Establish, staff, and determine the operations of a college-wide data	IR, ITS
governance structure.	
Review and map workflow processes and fully document details	All Units (ITS Lead)
through a central repository.	
Enhance self-service technologies for student success data access and	ITS
reporting.	

Develop and implement data systems to support internal knowledge	IR, ITS, IA
sharing about local businesses, organizations, philanthropies and	
community groups.	

Technology Goal 6 – Provide access to technology and technology services that support a diverse, equitable and inclusive environment at the College.

Action Items	Unit(s) Responsible
Develop a professional development plan to establish baseline	HR, AASS
standards for technology competency and training for all FSA	
employees.	
Research and implement an information system to track employee	HR, AASS
professional development across the College.	
Formulate detailed Web Accessibility Plan in accordance with District	FLOAT, ITS, EM/SC
Web Accessibility Policy and the recommendations outlined by WCAG	
2.0AA Standard	
Develop and collect standardized diversity, equity and inclusion	Diversity Office, General
metrics for College-wide data reporting.	Counsel, IR, AASS, EM/SC

Information Technology Services (ITS) undergoes a strategic planning initiative every five years. This process includes establishing a set of goals to guide the development of annual operating plans, setting an overall direction for ITS, and ensuring overall consistency with the mission and goals of the College.

The current plan focuses on delivering the results related to increasing enrollment, improving graduation rates, propelling institutional planning, identifying, and intervening with at-risk students, tracking all types of academic milestones, streamlining curriculum management, and <u>providing a personalized student experience from recruitment to post-graduate engagement.</u>

The student experience of the future will be the product of an intensive redesign process based on the liberal use of data, and on utilizing technologies to bring scalable and high-touch (both human and machine) practices to make student interactions with the institution personal, integrated, targeted and student-controlled. Failure to employ these kinds of practices — undertaken as integrated processes and integrated with the processes of other ecosystem members across the value chain — will increasingly put our college at a disadvantage when it comes to attracting and retaining students.

The chart below depicts a personalized, integrated and coherent student experience, which will become a key differentiator for our College and we are starting to build the strategies and infrastructure to make this happen.



Source: Gartner April 25, 2017 The Future of Student is Personal

In the following pages: **Appendix A**, defines the strategic framework and roadmap which will be delivered in 3 broad themes, beginning with plans to improve the technology foundation, extending to application portfolios and targeting technology-enabled transformation of CCP.

Appendix B, outlines the projects that ITS will undertake to demonstrate the alignment of ITS Projects with the TCC recommendation and the college's strategic goals. This is a five-year listing of the planned services, initiatives, and goals of the Information Technology Services Department. Critical to the success of the plan is the funding, project prioritization and sequencing.

Appendix A – Strategic Framework & Implementation Roadmap



Strategic Framework & Roadmap



The Strategy will be delivered in 3 broad themes, beginning with plans to improve the technology foundation, extending to application portfolios and targeting technology-enabled transformation.

Foundation

 Build and deliver core technology to support ongoing CCP needs. Find efficiencies and flexibility through simplicity, consolidation and cloud delivery.

Focus Areas

- Infrastructure
- Security
- Data

Applications

Update and replace the portfolio of aging applications to enable greater efficiency, scale and operational effectiveness

- Focus on Academic and Administrative Applications
- Develop comprehensive application portfolio strategies for all operational areas
- Standardize common processes and move to common platforms requiring less resources, complexity and expense

Transformation

Deliver new technologies that create a differentiated experience for our students, faculty, and staff

- Drive proof of concepts to test approaches and tools to change the way we interact and work
- Shift focus towards student facing and educational technologies
- Strategies to be developed across science, data and digital leveraging new technologies (e.g., mobile, internet of things, big data)



Foundation – Short Term (0-12 Months) Stabilize, Control and Enhance



The foundational initiatives will continue into 2022 with a focus on delivering business value, ensuring stability, exploring new digital opportunities for CCP and transforming the IT organization.

Foundation

Build and deliver core technology assets to support business needs and enhance company performance

Focus Areas

- Infrastructure
- Security
- Data

July 2021 - 2022 Priorities & Tactical Actions

Modernize Technology Infrastructure

Strengthen Enterprise Security

Technology enhanced classrooms

Build New Capabilities To Deliver Business Value

Enable analytics based student success and retention initiatives

Improve the Effectiveness of IT Organization

Data driven business decisions





Focus on academic and administrative applications while standardizing common processes and move to common platforms requiring less resource, complexity and expense.

Applications

Update and replace the portfolio of aging applications to enable greater efficiency, scale and operational effectiveness

2022 - 2025 Priorities & Tactical Actions

Academic Learning Design and Innovation

Mobility and Converged platforms for collaboration

Achieving Student Success Goals

Develop eLearning and Digital Media technologies

Deliver app centric personalized experience for students, faculty and staff

Develop Learning Spaces (Physical & Virtual)



Transformation – Long Term (> 36 Months) Innovate



Assessing how students, faculty & staff use technology in their learning, research, work, and play environments. This will be the foundation for our work and investments in structured innovation technologies that align to the starting point of our students, faculty & staff and engage them in the process of discovery and the love of learning.

Transformation

Deliver new technologies that create a differentiated experience for our students, faculty, and staff

2024 - 2025 Priorities & Tactical Actions

Cloud based ERP

Uniformed platform for sound business decisions

Measure and anticipate student behavior

Improved metrics and marketing strategies Improved communication with community

CCP 2.0 - Re-Imagining and Re-inventing CCP

Appendix B – ITS Projects



Technology Projects



The matrix below shows the alignment of IT projects with the College's Strategic Goals and the Six areas of focus. These projects and initiatives are dynamic and accumulative, existing technology continually evolves to the next level of service, support, and functionality. The planned future projects are as follows:

College Strategic Goal	Pillars	Description	Estimated Level of Effort	Priority	Fiscal Year(s)
1	1,4	Deploy Hyper converged infrastructure (HCI) to reduce data center complexity and increase scalability by using virtualization software to abstract and pool underlying resources, then dynamically allocate them. (Compute, Storage, Management, & Networking delivered As-a-Service).	3-Small	1-High	2022
1	1,4	Replace End-of-Life Data Center Core and Edge Switches.	3-Small	1-High	2022
1	4	Migration of Phone Switch from legacy Nortel System to Avaya or Cloud Phone System.	3-Small	1-High	2022-2023
1,2,3	1,4	Virtualization of servers and desktops in computer labs. Build labs that run in the cloud <u>or</u> in a virtualized environment.	2-Medium	2-Medium	2022-2023



Technology Projects – (page 2)



College Strategic Goal	Pillars	Description	Estimated Level of Effort	Priority	Fiscal Year(s)
1,2	1,5,6	Data Driven Decision Making – Enrollment Optimization, Admissions Tracking, & Academic Advising (Tableau).	2-Medium	1-High	2022
1,2	4	Explore the use of College-issued cards to serve identification, provide physical access, permit payments, and automate attendance taking. (Digital ID's on smartphones).	3-Small	1-High	2022-2023
1,2	4,5	DocuSign - Paperless and automation of workflow and processes College wide (ex. FLOAT, Institutional Advancement, etc.)	2-Medium	2-Medium	2022
1	1	Implement New Student Checklist using Banner Self-Service.	1-Small	1-High	2022
1	4	Expand, improve, and provide redundancy for Data Center to serve for at least the next five years.	2-Medium	1-High	2022
1	4	Implement Kronos time tracking system. eTime & Labor.	2-Medium	1-High	2022
1,2	1,4,6	Explore ways to enhance Degree Works to provide better student goals and progress towards achieving them. (Academic Pathways).	2-Medium	2-Medium	2022-2023



Technology Projects – (page 3)



College Strategic Goal	Pillars	Description	Estimated Level of Effort	Priority	Fiscal Year(s)
1	1,4	Apply security controls between virtual machines, applications, and data storages to minimize vulnerability against data breach and cyber attacks.	3-Small	1-High	2022
1,2	1,4	Update current digital signage system to an up-to-date, web based, and central management system.	3-Small	2-Medium	2022-2023
1,2	1,4	Explore how to improve teaching and learning experiences, fulfill current pedagogical expectations, and make classrooms more dynamic and interactive.	2-Medium	1-High	2022-2023
1,2,3	1	Coordinated team of staff and vendors in a multi-campus, year-long project to produce an online catalog.	2-Medium	1-High	2022
1,2,3	1,2,4	Hybrid Data Management (Structured and Unstructured Data - Collect, Organize & Analyze). Implement Cloud based Data Lakes to enable evidence based and data driven predictive decision making. Big Data Analytics & Data Lakes.	1-Large	1-High	2022-2023





College Strategic Goal	Pillars	Description	Estimated Level of Effort	Priority	Fiscal Year(s)
1,2	1,4	Automate the data feeds to SWN (Send Word Now) to facilitate consistency and real time updates.	3-Small	1-High	2022
1	1	Implement Banner Self-Service Forms to replace current student intake survey that is handled by Qualtrics application.	3-Small	1-High	2022
2	4	Fully implement 25Live to include all Users of the College. Campus-wide room scheduling capability & event mgmt.	3-Small	1-High	2022-2023
1,2,3	4,5	Implement all modules of Elliucian Analytics for all key areas including HR, Finance, Enrollment, etc.	2-Medium	2-Medium	2022-2023
1	1	Implement Electronic Transcript Exchange with Temple Univ.	3-Small	2-Medium	2022-2023
2	1	Implement the newly redesigned Drop-for-Non-Payment Process.	2-Medium	2-Medium	2022-2023
1,2	4	Re-engineer business processes (the analysis and design of workflows and processes within and between departments). Redefine services and redevelop operational processes.	1-Large	1-High	2023



Technology Projects – (page 5)



College Strategic Goal	Pillars	Description	Estimated Level of Effort	Priority	Fiscal Year(s)
1,2	1	Implement CPOS (Course Program of Study) – Leveraging Banner Student, Financial Aid and Degree Works to allow financial aid to pay for only courses that exist in a student's degree path.	2-Medium	2-Medium	2022-2023
1,2	1,3,4,5	Explore the possibility of a new CRM and Cloud ERP/SIS System to augment or replace current Ellucian Banner System.	1-Large	2-Medium	2024-202
1,2,3	1,3,4,6	People Centricity – Internet of Behaviors – How student's interact with CCP. Total experience strategy. Capturing the Digital Dust.	1-Large	3-Low	2024-202
1,2,3	1,3,4	IoT – Internet of Things & AI Engineering.	1-Large	3-Low	2024-202
1,2,3	1,4,6	Broadening IT Automation and Enhancing the Student Experience	1-Large	3-Low	2025

Technology Plan

Preparing for Tomorrow, Today



March 15, 2021

The Path to Possibilities.

Community College of Philadelphia





- The plan begins with a brief background of Higher Education business trends and technology trends that are crucial for meeting the strategic, operational, teaching/ learning, and relational demands of the College while creating a transformative student experience, fostering a collaborative workspace, and enabling innovation, sustainability and growth.
- The plan focuses on delivering the results related to increasing enrollment, improving graduation rates, propelling institutional planning, identifying and intervening with at-risk students, tracking all types of academic milestones, streamlining curriculum management, and providing a personalized student experience from recruitment to post-graduate engagement.
- This document provides a set of prioritized goals for technology, and a set of initiatives that will help direct the Community College of Philadelphia as we prepare for the future. This plan contains recommendations for technological enrichment within the College that will occur during the years 2021 through 2025.

Contents

Background & Context

Strategic Goals and Framework

Opportunity Analysis

Transformation Road Map, Priorities and Projects

Next Steps

Feedback, Investment Prioritization, Project Sequencing

Appendix

Current Challenges, Cloud ERP & Data Driven Intelligence



CCP Strategic Goals

3

As stated in the College 2017-2025 Strategic Plan, overall success will be achieved by reaching **three broad goals** by 2025:

Increase credit and non-credit enrollment by 20%



Double the graduation rate 2



Double the number of opportunities for students to enroll in career programs resulting in the attainment of marketable skills leading to placement in the local and regional economy







The technology plan for 2021-2025 will focus on providing a personalized, integrated, and coherent student experience that supports CCP's strategic direction with a focus on the six pillars outlined in the College's strategic plan.

1 The Student Experience

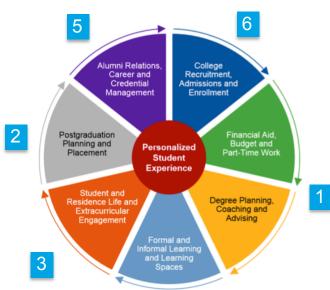
Workforce Development, Readiness and Economic Innovation

3 External and Internal Community Relations

4 World-Class Facilities

5 Fiscal Stability and Sustainability

6 Diversity, Equity and Inclusion



Holistic Student Experience

4

Source: Gartner April 25, 2017 The Future of Student is Personal



Provide access to technology and technology services that support the <u>student experience</u>.

- Develop and deploy analytics strategy to enable data informed decision-making in all areas of enrollment management.
- Investigate and implement technology solutions to facilitate enhanced communications and interactions with students, advisors and counselors.
- Research, evaluate, and promote innovative uses of academic technology, including the development of roadmaps to guide faculty and student adoption of innovative technologies. (Open Education Resources (OER) & Digital Learning).
- Fully implement the College assessment tools to enable efficient and effective assessment through data collection, analysis, reporting, and close-the-loop activities.



Provide access to technology and technology services that support <u>workforce development</u>, <u>readiness</u>, <u>and economic innovation</u>.

- Implement systems and procedures that enable broad access to industry and employer data in support of workforce programs, curriculum development and maintenance.
- Review and refresh as needed Career Connections technologies to effectively support student access to up-to-date career data, effective employer-student connections, and student employment and other work-based learning experiences.



Provide access to technology and technology services that support <u>external and internal community relations</u>.

- Develop and implement a strategy for managing the relationships between ITS and the user base across the college.
- Fully implement a scheduling system to provide college-wide calendaring and event organization.





Provide access to technology and technology services that support having <u>world-class</u> <u>facilities at the College</u>.

- Audit existing ITS infrastructure, services, and support to determine current status relative to industry standards and best practices to define and implement plans for improvement.
- Develop a BYOD strategy for integrating personally owned devices through a secure methodology to the college WAN.
- Ensure secure computing and networking environments utilizing technology, training, and procedures within the College and through remote access.
- Implement College-wide hardware and software technology purchasing process to ensure compatibility and avoid duplication of competing products across the enterprise.
- Develop a collaborative process to evaluate existing applications and recommend standardization on core product functionality independent of areas. (Cloud Computing & Cloud ERP).
- Research, evaluate, and implement Virtual Desktop Infrastructure (VDI) and cloud computing strategies to support classroom and administrative technology needs.
- 7 Annual report examining two or three technologies recommended for College review and consideration.



Provide access to technology and technology services that support <u>fiscal stability and sustainability</u>.

- Expand the use of Document Imaging to assist in managing, searching, and archiving digital assets.
- Establish, staff, and determine the operations of a College-wide data governance structure.
- Review and map workflow processes and fully document details through a central repository.
- 4 Enhance self-service technologies for student success data access and reporting.
- Develop and implement data systems to support internal knowledge sharing about local businesses, organizations, philanthropies and community groups.



Provide access to technology and technology services that support a <u>diverse</u>, <u>equitable and inclusive</u> environment at the College.

- Develop a professional development plan to establish baseline standards for technology competency and training for all FSA employees.
- Research and implement an information system to track employee professional development across College.
- Formulate detailed Web Accessibility Plan in accordance with our Web Accessibility Policy and recommendations outlined by WCAG 2.0A (Web Content Accessibility Guidelines).
- Develop and collect standardized diversity, equity and inclusion metrics for Collegewide data reporting.
- 5 Closing the Digital Divide by providing meaningful access to Technology & Services.



Higher Education Trends & Enabling Technologies

Business Trends

- (1) Student Success
- 2 Competency-Based Education
- **3** Reinventing Credits
- 4 Analytics Everywhere
- 5 Institutional Branding
- **6** Breaking Boundaries
- Rethinking Business Models
- 8 Increasing Political Intervention
- 9 Innovative Learning Spaces
- **E-Research**

Enabling Technologies

- **1** Adaptive Learning
- **2** Predictive Analytics
- 3 CRM
- 4 Open Micro-credentials
- **5** Digital Assessment
- 6 Smart Machines and Al
- Listening and Sensing Technology
- 8 Collaborative Technology
- 9 Block Chain
- **10** Nudge Technology

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Transformative Student Experience

✓ Increase student success both while at CCP and after graduation

High Performance Culture

2

3

✓ Positive, productive, and collaborative workplace

Strategic Innovation, Sustainability and Growth

✓ Highly efficient and aligned processes, systems, and structures that support the mission of the College and expand funding, students, and productivity

Student Experience of the Future



Source: Gartner April 25, 2017
The Future of Student is Personal

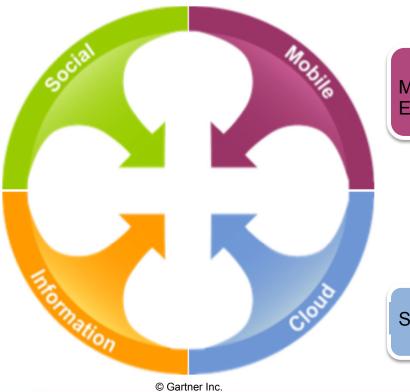


Technology Convergence in Higher Education

Social Learning Open Badges

> Support education strategy with any data

Big Data Adaptive Learning



Mobile Learning **Education Devices**

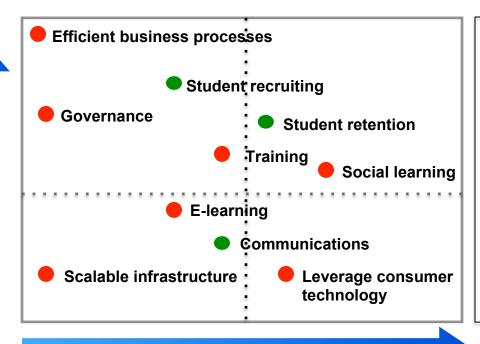
Learn and engage with Artificial Intelligence

SaaS, PaaS, laaS



Investment Prioritization Criteria





Potential Services:

- Predictive analytics service
- Content delivery optimization service
- Cloud delivery optimization service



Improves Student, Faculty and Staff Experience

Personal Productivity

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Strategic Framework & Roadmap

The Strategy will be delivered in 3 broad themes, beginning with plans to improve the technology foundation, extending to application portfolios and targeting technology-enabled transformation.

Foundation

 Build and deliver core technology to support ongoing CCP needs. Find efficiencies and flexibility through simplicity, consolidation and cloud delivery.

Focus Areas

- Infrastructure
- Security
- Data

Applications

Update and replace the portfolio of aging applications to enable greater efficiency, scale and operational effectiveness

- Focus on Academic and Administrative Applications
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Deliver new technologies that create a differentiated experience for our students, faculty, and staff

- Drive proof of concepts to test approaches and tools to change the way we interact and work
- Shift focus towards student facing and educational technologies
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Foundation – Short Term (0-12 Months)

Stabilize, Control and Enhance

The foundational initiatives will continue into 2022 with a focus on delivering business value, ensuring stability, exploring new digital opportunities for CCP and transforming the IT organization.

Foundation

Build and deliver core technology assets to support business needs and enhance company performance

Focus Areas

- Infrastructure
- Security
- Data

July 2021 - 2022 Priorities & Tactical Actions

Modernize Technology Infrastructure

Strengthen Enterprise Security

Technology enhanced classrooms

Build New Capabilities To Deliver Business Value

Enable analytics based student success and retention initiatives

Improve the Effectiveness of IT Organization

Data driven business decisions



Applications – Medium Term (12-36 Months) Optimize and Extend

Focus on academic and administrative applications while standardizing common processes and move to common platforms requiring less resource, complexity and expense.

Applications

Update and replace the portfolio of aging applications to enable greater efficiency, scale and operational effectiveness

2022 - 2025 Priorities & Tactical Actions

Academic Learning Design and Innovation

Mobility and Converged platforms for collaboration

Achieving Student Success Goals

Develop eLearning and Digital Media technologies

Deliver app centric personalized experience for students, faculty and staff

Develop Learning Spaces (Physical & Virtual)



Transformation – Long Term (> 36 Months)

Assessing how students, faculty & staff use technology in their learning, research, work, and play environments. This will be the foundation for our work and investments in structured innovation technologies that align to the starting point of our students, faculty & staff and engage them in the process of discovery and the love of learning.

Transformation

Deliver new technologies that create a differentiated experience for our students, faculty, and staff

2024 - 2025 Priorities & Tactical Actions

Cloud based ERP

Uniformed platform for sound business decisions

Measure and anticipate student behavior

Improved metrics and marketing strategies
Improved communication with community

CCP 2.0 - Re-Imagining and Re-inventing CCP

Projects



Technology Projects

The matrix below shows the alignment of IT projects with the College's Strategic Goals and the Six areas of focus. These projects and initiatives are dynamic and accumulative, existing technology continually evolves to the next level of service, support, and functionality. The planned future projects are as follows:

College Strategic Goal	egic		Estimated Level of Effort	Priority	Fiscal Year(s)
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Technology Projects – (page 2)

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Technology Projects – (page 3)

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Technology Projects – (page 4)

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2	1	Implement the newly redesigned Drop-for-Non-Payment Process.	2-Medium	2-Medium	2022-2023
1,2	4	Re-engineer business processes (the analysis and design of workflows and processes within and between departments). Redefine services and redevelop operational processes.	1-Large	1-High	2023



Technology Projects – (page 5)

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1,2	1,3,4,5	Explore the possibility of a new CRM and Cloud ERP/SIS System to augment or replace current Ellucian Banner System.	1-Large	2-Medium	2024-2025
1,2,3	1,3,4,6	<u>People Centricity</u> – <u>Internet of Behaviors</u> – How student's interact with CCP. Total experience strategy. Capturing the Digital Dust.	1-Large	3-Low	2024-2025
1,2,3	1,3,4	IoT – Internet of Things & AI Engineering.	1-Large	3-Low	2024-2025
1,2,3	1,4,6	Broadening IT Automation and Enhancing the Student Experience	1-Large	3-Low	2025

Next Steps



Request of the various CCP Committees

- Seek feedback for the Technology Plan
- Gain support and endorsement

2021 Activities

- Develop investment & resource requirements, plus sequence & timing
- Begin execution of 2021 projects
- Continue implementation of the Strategic Framework and Road Map
- Provide progress update at the President's Cabinet & Business Affairs Committee Meetings

2021 and Beyond

- Continue implementation of the Road Map & Projects
- Continue to develop application and transformation strategies aligned with CCP's goals
- Review progress & accomplishments at regular intervals







How to address Our Technology Challenges





Data Integrity Challenges



One-Single Core of Truth; SIS/CRM



Security Role and Personnel Support



Distributed Data Standards and Remove Variability



Manual Administration



Enhanced Automation
Of Core Processes



Delivered Reports And Dashboards



Configurable Processes



Data and Reporting



Improved Distribution Of Data Dashboards



Impact on Strategic Student Outcomes



Improve Visibility into Student/Faculty Challenges



Student Engagement



Eliminate Manual Student Engagement



Students Connected With Academic Plan



Reduced Student Effort for Changes and Adjustments



Current SIS Challenges ... Lack of an integrated Cloud based ERP

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Data Leads to Difficult Reporting Environment



Limited Student Engagement Pre/Post-Matriculation



Data residing in multiple silos; Updates are unreliable, not seamless



No automated way to collect applications, repeat manual processes



Limited ability to efficiently distribute data & analytics



Distributed engagement processes; desire for one standard and system



Enhancing Student Experience.... With an Integrated Cloud based ERP

Strategic Context

Focus on transforming front-end student experience, matriculated student efficiency and utilizing improved data quality to enable enhanced resource utilization and student success outcomes.

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Systems Enablement and Student Enablement

Streamline CCP Recruiting

CCP's technology transparency will be more cost effective, easier to manage, and shift away from a disparate technology environment



Matriculated Student Efficiency and Experience

Unified Student Experience

Improved usability, mobile access, and consumer grade design of systems will meaningfully engage CCP students and drive outcomes



Improved Faculty and Student Connection

Drive Advising Efficiency

Improved automation and enhanced visibility into student lifecycle for earlier identification of trends and enhanced student experience/outcomes

Strategic & Economic value of a new Cloud based ERP

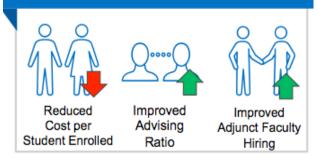


Functional Efficiencies

Technology Simplification

Student Experience & Engagement

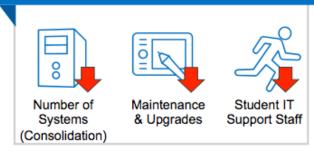
Value Creation



"Our faculty, staff and prospective students have high expectations. What they want to see is something that is much more modern and flexible.

©2017 WORKDAY, INC.

Value Creation



"Colleges dealing with legacy ERP technology face multiple challenges in the near-term: Innovation Unlikely; innovation is highly unlikely Transition Inevitable; forced transition and requisite engagement Costly, Disruptive Upgrades; changes in database and customizations are risk prone"

Value Creation



Modern ERP provides us with a modern and engaging technology ecosystem that is designed to empower the members of our community with information at their fingertips, helping support student, faculty, staff, and institutional success."

3

Operational Effectiveness

Areas

The College's leadership and operations employees will benefit from improved capabilities, leading to faster processes and more data-driven business decisions.

Value Drivers

Improved experience through integration and tools to build a better educational product.

Strategic Impact

Efficient Business Processes

New Strategies and Validation

Retention and New Enrollments

Improved Customer Experience



Focus Areas

The College's HR, Payroll and Finance employees will be able to shift their focus from day-to-day transactions to better supporting the business with strategic insight, while improving overall process efficiency and increasing compliance

faster, consolidated, and more efficient business processes

Improved capabilities, leading to

Total Cast of

Efficiency

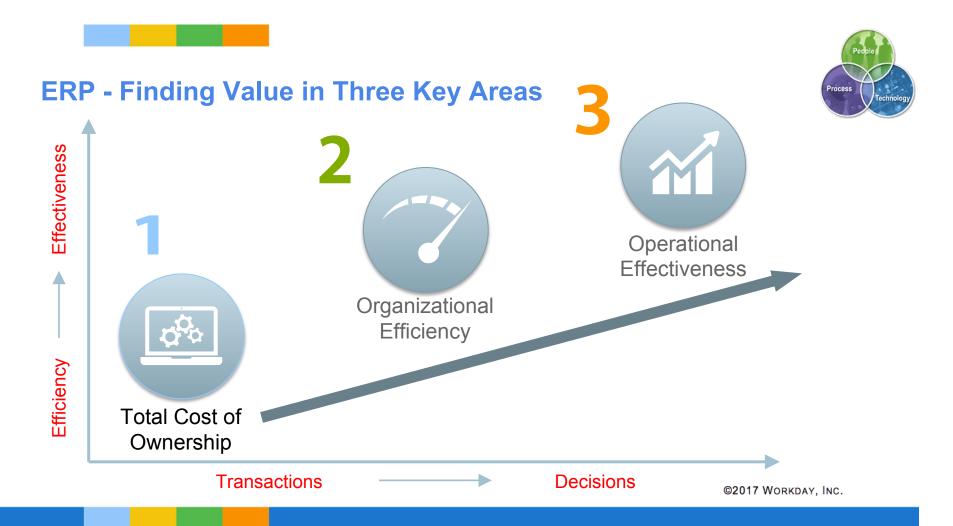
Total Cost of Ownership The College's ITS organization will focus more on new features and reduce maintenance related activities, while also increasing reporting, security, integration and audit capabilities

Improved network stability, classroom technology, integration, and upgraded faculty devices to support the sophisticated learning experience.

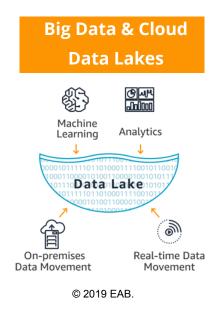
Reduce Risk

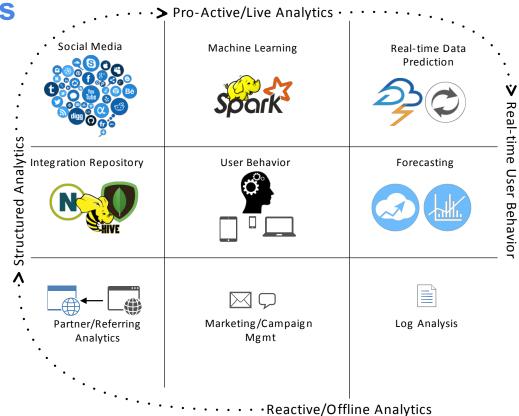
Student Experience

©2017 WORKDAY, INC.



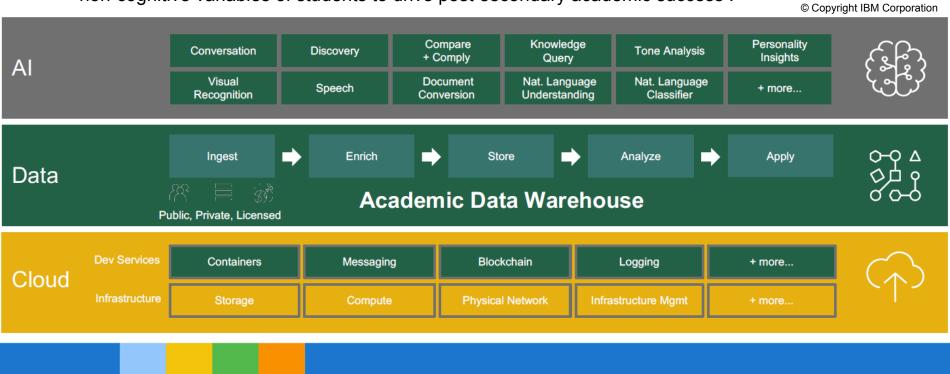
Predictive Analytics





Learning and Engaging with AI – Data Driven Intelligence

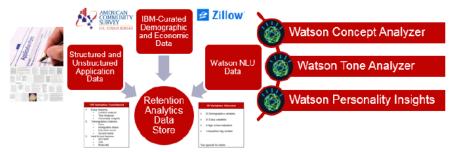
A generalized artificial intelligence and machine learning platform that utilizes attitudinal profiles on the non-cognitive variables of students to drive post-secondary academic success.



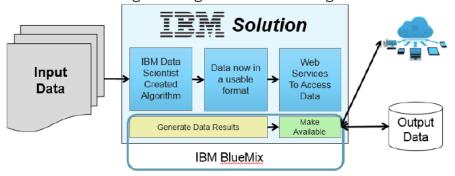
Data Driven Intelligence - Sample Outcome #1

A leading public university needed a solution to identify at-risk students as soon as possible.

IBM leveraged structured and unstructured data to enable cognitive retention analytics.

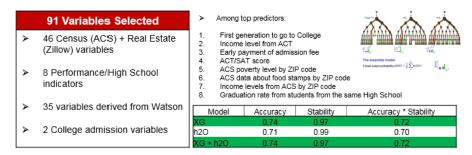


IBM delivered insights using Bluemix technologies.

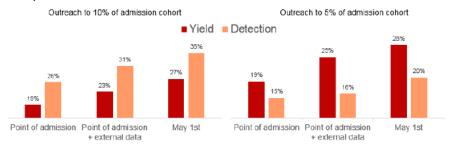


IBM delivered a cognitive solution that identifies 31% of at-risk students at point of admission.

IBM leveraged state-of-the-art machine learning to identify atrisk students at the point of admission.



The solution enabled outreach to 31% of at-risk students at the point of admission.



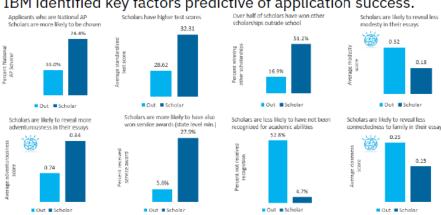
Data Driven Intelligence - Sample Outcome #2

A leading education foundation needed a solution to keep pace with a growing application workload

IBM leveraged Watson cognitive technologies to harvest predictive insights from application essay data.

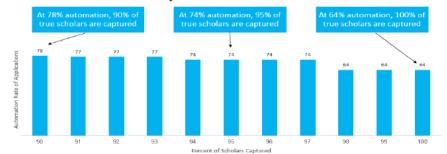


IBM identified key factors predictive of application success.

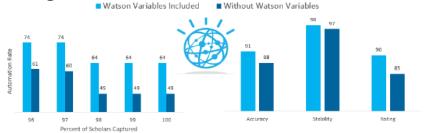


IBM delivered a cognitive application that achieves 64% automation with 100% accuracy.

IBM leveraged machine learning to achieve maximum automation and accuracy.



Watson technology added significant value to the machine learning solution.



Data Protection Policy

Introduction

CCP is committed to ensure compliance with applicable data protection laws and regulations. This Policy describes how and why we collect, process and your personal data, as well as your rights with regards to the processing of your personal data.

Scope and Supplement

This Policy applies to the processing of personal data obtained through any channel of communication or by any means, including but not limited to email, file transfer, feeding personal data into applications and tools, websites <u>or</u> mobile apps, social media pages and platforms.

This Policy may be supplemented by specific data protection and privacy notices and statements that relate to specific forms or purposes of data processing.

Personal Data we process, Purposes and Legal Basis

This section of our Policy describes what personal data we collect and process and for what purposes. The amount of personal data we process depends on the context and circumstances of your interaction with us.

1. Browsing or registering on our websites, social media pages or platforms

When you browse our websites, social media pages or platforms, we may use Cookies and other tracking technologies to capture and understand how you use our websites, social media pages and platforms.

Not all of our websites employ Cookies and tracking technology that collect personal data. Depending on the Cookies and tracking technologies in use, we collect information about your online browsing behavior on our websites, social media page or platform, including information how react to adverts and offers. We may also collect information about the device you have used to access our websites, social media pages or platforms, (including device model and operating system, browser type, IP-address, mobile device identifiers).

2. Communication, marketing, taking part in events and feedback

When you contact us for any sort of inquiry or request, we will process your **personal details** (including name, title, company <u>or</u> organization you work for, email, telephone, other contact information), as far as this is necessary to deal with your inquiry or request and to respond to.

3. Recruitment and application

When we recruit people we will process the personal data that you provide as part of your application. Data processing for the purpose of recruitment and carrying out the application process will generally comprise **personal details** (including name, title, email, telephone, postal address) and **qualification data** (including graduation, training certificates, advanced education certificates, credentials, and skills). After completion of an application process we may continue to process (store) personal data of applicants for a certain period of time where necessary to ensure we are able to exercise rights or defend against claims in the context of the recruitment process.

When applying for a position at CCP via a careers website, recruitment platform or job portal, or when responding to a job advertisement, applicants should also refer further and more specific privacy information made available on the careers website, recruitment platform, job portal or in the job advertisement.

Sharing Personal Data with Service Providers and Third Parties

We will not sell, exchange or otherwise distribute your personally identifiable information without your consent, except to the extent required by law. We do reserve the right to work with third-party vendors, to host this information solely for the purposes intended by Community College of Philadelphia and in accordance with this policy.

Storing periods for Personal Data

Generally, we keep personal data for no longer than is necessary for pursuing or achieving the purposes for which the personal data is processed.

If we process personal data for the purpose of recruitment and carrying out the application process, we keep personal data for as long as necessary to review and assess the applications, to select applicants, to negotiate and execute an employment contract, and to exercise rights or defend against claims in the context of the applications process. If an application is successful, your personal data – as far as necessary for carrying out the employment contract – will be kept for as long as you are employed with CCP and after termination of your employment, for as long as necessary to comply with retention requirements, or for as long as forthcoming or pending lawsuits require longer retention.

Security of Personal Data

We have implemented technical and organizational security measures to protect personal data we process against accidental or unlawful manipulation, destruction or loss, alteration, and against unauthorized disclosure or access by third parties. Such security measures include authentication tools, firewalls, monitoring of IT systems and networks, and encryption of personal data.

The technical and organizational security measures are reviewed and adjusted on a regular basis, taking into account the state of the art of technology, the nature, scope, context and

purposes of processing and the risks and probability of occurrence. However, given the dynamic context of security measures, state of the art of technology, vulnerabilities, threats and risks, absolute security cannot be guaranteed.

Your Rights over your Personal Data

You have many rights over your personal data and how it is used. These rights are summarized below.

Right to access your Personal Data

You have the right to request a confirmation as to whether or not we process personal data concerning you.

If we process personal data about you, you have the right to request access to the personal data and to obtain further information regarding the purpose of the processing; the categories of personal data concerned; who else outside CCP might have received the data.

1. Right to rectify your Personal Data

You have a right to rectify (correct) the record of your personal data processed by us, if it is inaccurate or incorrect.

2. Right to erase your Personal Data

You have the right to request erasure (deletion) of your personal data. However, there may be reasons and legal grounds for keeping your personal data despite your request, e.g. if you still have a business relation with us or other contractual obligations, or if record keeping obligations prevent the erasure, or when we handle an ongoing complaint.

3. Right to object to the processing of your Personal Data

You have the tight to object to the processing of your personal data on grounds relating to your particular situation and circumstances. However, there may be reasons and legal grounds for processing your personal data despite your objection. If we refuse your request we will provide you with information explaining why we have refused your request.

4. Right to restrict the processing of your Personal Data

You have the right to restrict the processing of your personal data. This means that

under certain conditions you can limit the way we process and use your personal data. The right to restrict the processing may in particular be exercised if you have issues with the content of the personal data we hold or how it is processed, e.g. if you contest the accuracy of the personal data we hold and we are verifying the accuracy of the data, the processing may be restricted for the time of verification.

5. Right to withdraw Consent to process your Personal Data

Where consent is the legal basis for the processing of your personal data, you have the right to withdraw your consent at any time. However, withdrawal of consent takes typically effect for the future only. Any past processing of personal data that was legitimately based on consent may be subject to other provisions or obligations that require and legitimize further processing of the personal data.

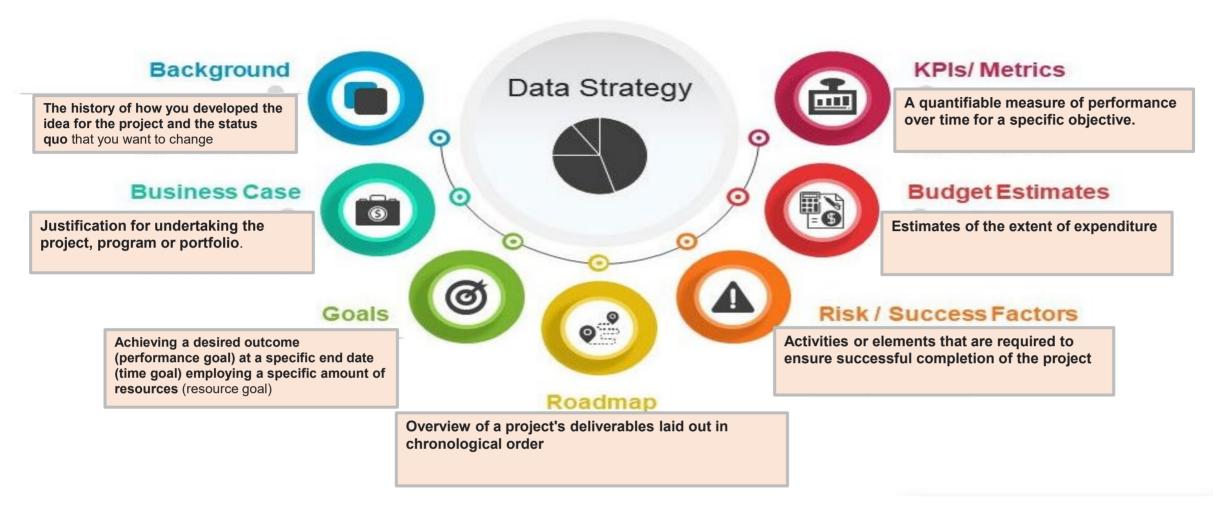
Data Controller and Responsibility

Unless indicated otherwise, the CCP entity that collected your personal information is the Data Controller of your personal data. It determines the purposes and means for processing your personal data and is responsible for compliance with applicable data protection laws and regulations and the requirements of this Policy.

Amendments to this Policy

We reserve the right to amend this Policy at any time.

COMMUNITY COLLEGE OF PHILADELPHIA | Project Metrics



A data driven strategy translates high-level strategic objectives into measurable goals.

These goals are the leading indicators of business performance

They also serve as an intermediate step between the sometimes-esoteric objectives (management speak) and the well-understood action plans and personal performance objectives (employee speak).

- 1. How will we align our entire organization with our strategy?
- 2. Do our data assets reflect what is crucial to our strategy?
- 3. How will we leverage our data to accurately predict future business outcomes?

We translate our strategic objectives into one or more measures. Some readers may know these as SMART goals (Specific, Measurable, Attainable, Relevant, and Time-boxed). We define strategic objectives for how we want to delight our customers. We then identify the process changes required to achieve those objectives. Then, we determine the organizational structures, people, skills, systems, data, and culture needed to implement those processes.

When we state objectives like the ones in the list below, they may have a profound impact on our employees, but individuals are left wondering how to achieve these high-level outcomes.

Be recognized as effective service provider

Establish processes that ensure quality Build a culture of change readiness

Improve applications reliability and availability by 10%

Deliver our services 15% faster
Increase ITS brand favorability by 10%
Improve customer satisfaction by 5% while reducing the cost of customer service by 4%

METRICS OVERVIEW

Enhance Integration

Enable Innovation

Information Security Scores

I.T Risk Score Process Errors

Effective Resource Utilization
Security Management Rate
Increase Service Productivity

Capability Rate
Budget Overhead

KPI's

User Friendliness

Accessibility
I.T Security Training
Overall quality

System Maintainability

Reduce Meantime between failures

Service Cost Testability Save Money Increase Usability

Enhance Buisness Process

Increase Process flexibility & adaptability
Increase in Staff, Faculty, & Student Productivity
Automation, Standardization & Consolidation

Streamlining of Day-to-Day Operations

Making it easier for Users to work with all IT Systems

A systemactic approach or method to increase functionality and improve processes.

Vulnerability assessment that support the organization's security needs.

Determining internal and external risk levels.

Results of processing results arising from faulty implementation or execution of a system.

The utilization of time availability to effectively complete the project

The measure of the organization assets that will be needed to develop, document, and implement system policies and procedures.

The purpose of service production as outputs of internal efficiency

A class of metrics that are used to measure the technical capabilities of business entities such as processes, products, and software.

The expected costs that will be needed to cover the implementation of new applications

Key Performance Indicators

Is the system simple for people to use

Is the system approachable and available for everyone involved in the day to day operations.

The implementation of security and strategies that will be used to reduce or prevent user risk and security breaches.

System mechanisms that allow for organization responsiveness and continual improvement Constant system improvements, updates, and repair that will be required for operation.

Metrics for Uptime and Downtime

Return on investment and Total Cost of Ownership

Software testing that support user acceptance and functions that are needed to cover organizational needs.

Enabling meaningful change

Adapting to technology in the areas in education to allow students, staff, and faculty to increase computer and technology skills.

Projects



Technology Projects

The matrix below shows the alignment of IT projects with the College's Strategic Goals and the Six areas of focus. These projects and initiatives are dynamic and accumulative, existing technology continually evolves to the next level of service, support, and functionality. The planned future projects are as follows:

College Strategic Goal	Pillars	Description	Lead Department	Level of Effort	Priority	Fiscal Year
Deploy Hyper converged infrastructure (HCI) to reduce data center complexity and increase scalability by using virtualization software to abstract and pool underlying resources, then dynamically allocate them. (Compute, Storage, Management, & Networking delivered As-a-Service).		ITS	3-Small	1-High	2022	
1	1,4	Replace End-of-Life Data Center Core and Edge Switches.	ITS	3-Small	1-High	2022
1	4	Migration of Phone Switch from legacy Nortel System to Avaya or Cloud Phone System.	ITS	3-Small	1-High	2022-2023
1,2,3	1,4	Virtualization of servers and desktops in computer labs. Build labs that run in the cloud <u>or</u> in a virtualized environment.	ITS	2-Medium	2-Medium	2022-2023



Technology Projects – (page 2)

College Strategic Goal	Pillars	Description	Lead Department	Level of Effort	Priority	Fiscal Year
1,2	1,5,6	Data Driven Decision Making – Enrollment Optimization, Admissions Tracking, & Academic Advising (Tableau).	OSRR, IE, ITS	2-Medium	1-High	2022
1,2	4	Explore the use of College-issued cards to serve identification,		3-Small	1-High	2022- 2023
1,2	4,5	DocuSign - Paperless and automation of workflow and processes College wide (ex. FLOAT, Institutional Advancement, etc.)	ITS, IE, IA,	2-Medium	2-Medium	2022
1	1	Implement New Student Checklist using Banner Self-Service.	ITS, ESS	1-Small	1-High	2022
1	4	Expand, improve, and provide redundancy for Data Center to serve for at least the next five years.	ITS	2-Medium	1-High	2022
1	4	Implement Kronos time tracking system. eTime & Labor.	ITS, HR/Payroll, Controller	2-Medium	1-High	2022
1,2	1,4,6	Explore ways to enhance Degree Works to provide better student goals and progress towards achieving them. (Academic Pathways).	OSRR and IR/IE	2-Medium	2-Medium	2022- 2023



Technology Projects – (page 3)

College Strategic Goal	Pillars	Description	Lead Department	Level of Effort	Priority	Fiscal Year
1	1,4	Apply security controls between virtual machines, applications, and data storages to minimize vulnerability against data breach and cyber attacks.	ITS	3-Small	1-High	2022
1,2	1,4	Update current digital signage system to an up-to-date, web based, and central management system.	MMS, ITS	3-Small	2-Medium	2022- 2023
1,2	1,4	Explore how to improve teaching and learning experiences, fulfill current pedagogical expectations, and make classrooms more dynamic and interactive.	FLOAT, MMS	2-Medium	1-High	2022- 2023
1,2,3	1	Coordinated team of staff and vendors in a multi-campus, year-long project to produce an online catalog.	ITS, A&SS, Special Events, MMS, WEI	2-Medium	1-High	2022
1,2,3	1,2,4	Hybrid Data Management (Structured and Unstructured Data - Collect, Organize & Analyze). Implement Cloud based Data Lakes to enable evidence based and data driven predictive decision making. Big Data Analytics & Data Lakes.	ITS, IE, IR	1-Large	1-High	2022- 2023



Technology Projects – (page 4)

College Strategic Goal	Pillars	Description	Lead Dept.	Level of Effort	Priority	Fiscal Year
1,2	1,4	Automate the data feeds to SWN (Send Word Now) to facilitate consistency and real time updates.	ITS	3-Small	1-High	2022
1	1	Implement Banner Self-Service Forms to replace current student intake survey that is handled by Qualtrics application.	ITS and ESS	3-Small	1-High	2022
2	4	Fully implement 25Live to include all Users of the College. Campus-wide room scheduling capability & even t mgmt.	ITS, A&SS, Special Events, MMS, WEI	3-Small	1-High	2022- 2023
1,2,3	4,5	Implement all modules of Elliucian Analytics for all key areas including HR, Finance, Enrollment, etc.	ITS	2-Medium	2-Medium	2022- 2023
1	1	Implement Electronic Transcript Exchange with Temple Univ.	ITS, OSRR, EMS	3-Small	2-Medium	2022- 2023
2	1	Implement the newly redesigned Drop-for-Non-Payment Process.	ITS, Financial Aid, OSRR, A&SS	2-Medium	2-Medium	2022- 2023
1,2	4	Re-engineer business processes (the analysis and design of workflows and processes within and between departments). Redefine services and redevelop operational processes.	ALL Depts.	1-Large	1-High	2023



Technology Projects – (page 5)

College Strategic Goal	Pillars	Description	Lead Dept.	Level of Effort	Priority	Fiscal Year
1,2	1	Implement CPOS (Course Program of Study) – Leveraging Banner Student, Financial Aid and Degree Works to allow financial aid to pay for only courses that exist in a student's degree path.	ITS, Financial Aid, OSRR, Academic & Student Success	2-Medium	2-Medium	2022- 2023
1,2	1,3,4,5	Explore the possibility of a new CRM and Cloud ERP/SIS System to augment <u>or</u> replace current Ellucian Banner System.	B&F, Academic & Student Success	1-Large	2-Medium	2024- 2025
1,2,3	1,3,4,6	<u>People Centricity</u> – <u>Internet of Behaviors</u> – How student's interact with CCP. Total experience strategy. Capturing the Digital Dust.	B&F, Academic & Student Success	1-Large	3-Low	2024- 2025
1,2,3	1,3,4	IoT – Internet of Things & Al Engineering.	ITS	1-Large	3-Low	2024- 2025
1,2,3	1,4,6	Broadening IT Automation and Enhancing the Student Experience	ITS	1-Large	3-Low	2025

ATTACHMENT B

Three Year Capital Budget Plan

Community College of Phila	delphia		
Multi-Year Capital Pla	n		
Fiscal Year 2022-2024	1		
Source of Funds		Revenues	
Maintenance Fund	\$	8,977,890	50.6%
Plant Fund		4,742,131	26.7%
3 Years from City Appropriation (FY22, FY23,24)		1,500,000	8.5%
3 Years of Capital Fees (FY22, FY23, FY24)		1,230,000	6.9%
Main Garage Maintenance Funds		984,526	5.5%
Foundation Support		315,000	1.8%
	\$	17,749,547	100%
Use of Funds	Ca	pital Expenses	
Facility Projects	\$	15,980,110	90.0%
FF&E Purchases	T	1,322,605	7.5%
Divisional Priorities		446,832	2.5%
	\$	17,749,547	100%
	7	11,743,347	100/0
Capital Budget Roll Forward			
Approved Spending as per 2021-2023 Capital Plan		14,533,762	
Less: Completed Projects 2021		3,761,195	
Projects charged to HEERF/ CATTO-completed		1,818,257	
Carry Over Projects 2022-2024 Capital Plan		8,954,310	
Changes to projects/spending on carry over projects		3,276,347	
New Projects		5,518,890	
2022-24 Capital Plan	\$	17,749,547	
Library & Learning Commons		\$17,900,000	
Career and Advanced Technology Center		\$33,500,000	
Return to Campus Projects (Not Capital Spending)			
Duct Cleaning		\$1,952,500	
Air Flow Testing and Repair		500,000	
Acrylic Dividers		260,000	
Total		\$2,712,500	

	Community College of Philadelphia				
	Multi-Year Capital Plan				
	Fiscal Year 2022-2024				
	Source of Funds	Revenues	Comments		
	Maintenance Fund	8,977,890			
	Plant Fund	4,742,131			
	Main Garage Maintenance Funds	984,526			
	3 Years from City Appropriation (FY22, FY23,24)	1,500,000			
	3 Years of Capital Fees (FY22, FY23, FY24)	1,230,000			
	Foundation support	315,000			
	Total Source of Funds	17,749,547			
<u>Building</u>	FACILITY PROJECTS	Uses of Funds		C/O or New	<u>Priority</u>
NWRC, & WRC,					
Winnet	Roof Replacements	2,400,000	NWRC, & WRC, Winnet	C/O from Desig	High
Main	Electrical Upgrade		3 Generators, lighting, Building Automation	C/O	High
Bonnell	Automation for Basement Chilled Water Pumps 9-12	15,000	Automation		High
Bonnell	Cooling Tower Dunnage & Piping	565,000		C/O	High
Mint/Bonnell	Replace Atrium Skylights - Mint/Bonnell	1,200,000	1/2 from College- (RACP funding)	New	High
Mint	Mint Building Front Doors	270,000	RFP issued	C/O	High
Mint	Replace Hot Water / Heat Exchanger System (MG-35)	316,400	Scope of work for RFP	C/O	High
Mint/Bonnell	Fire Safety Enhancements in data closets	200,000	SOW to be developed by IT Specialist/Sneider	C/O	High
	NERC Classroom Conversion - 3 GP to 2 PC with				
NERC	Furniture	145,000		C/O	Medium
	Reconfiguration of Medical Assistant Lab Space (NERC				
NERC	203)		New from A&SS Initiatives; In-house project	C/O	Medium
NWRC	NWRC Repairs to the Non-Load bearing wall	100,000		C/O	High
NWRC	Heat Pumps Condensate Piping Repairs - NWRC	94,100		C/O	High
	Create a Simulation / Skills Lab for Nursing & Allied				
West	Health		from FY20 A&SS Initiatives ;	C/O	Medium
West	Physics Lab	313,500	1/2 of \$625000	C/O	High
W/ost	Renovation of Respiratory Core Lab Second (M/2 25)	20.000		C/O	Medium
West	Renovation of Respiratory Care Lab Space (W2-36)	20,000	Hadata flancius variale blinda linktius and	C/O	iviedium
Winnet	Creat Hall Benevation	450.000	Update flooring, panels, blinds, lighting and	6/0	Lligh
Winnet	Great Hall Renovation	450,000	painting	C/O	High
	Main garage -Phase IV & V	721,000		-	High
B II	Café in Mint Building	1,250,000			High
Bonnell	Chiller #3 Replacement	1,300,000		C/O	Medium

Air Compressor, S Valve with backflor Facilities update, CBI Elevat Facilities Replace sprinklers Facilities Replacing Gym Flor Bonnell Bath rooms renov Façade -Building E Old Cafeteria reno FCTL, Cooling Tow FURNITURE, FIXTO NERC Labs Chairs NWRC Carpet Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture DIVISIONAL PRIO	Multi-Year Capital Plan Fiscal Year 2022-2024 LIB and Gymheating system pumps,				
Air Compressor, S Valve with backflor Facilities update, CBI Elevat Facilities Replace sprinklers Facilities Replacing Gym Flor Bonnell Bath rooms renov Façade -Building E Old Cafeteria renov FCTL, Cooling Tow FURNITURE, FIXTOM NERC Labs Chairs NWRC Carpet Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture DIVISIONAL PRIO					
Valve with backflor update, CBI Elevate Facilities Replace sprinklers Replacing Gym Flor Bonnell Bath rooms renov Façade -Building E Old Cafeteria renote FCTL, Cooling Town FCTL, Cooling Town PLOTE Replacement of C Learning Library F Interior Wayfinding Subtotal Furniture DIVISIONAL PRIO	J.I.R. and Gymheating system numps				
Facilities Bonnell Bath rooms renov Façade -Building E Old Cafeteria reno FCTL, Cooling Tow FURNITURE, FIXTI NERC Labs Chairs NWRC Carpet Rep Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture	ow preventer, NWRC 2nd Boiler tor rebuild		Replace 2 out of 4 Air compressors, replacing 2 out 6 aged heating system pumps(SLIB & Gym), 16th street valve, convert Boiler to natural gas, and CBI Garage elevator rebuild	New New	High High
Bonnell Bath rooms renov Façade -Building E Old Cafeteria reno FCTL, Cooling Tow FURNITURE, FIXTE NERC Labs Chairs NWRC Carpet Rep Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture		1,000,000		New	High
Façade -Building E Old Cafeteria rend FCTL, Cooling Town FURNITURE, FIXTO NERC Labs Chairs NWRC Carpet Rep Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture DIVISIONAL PRIO		125,000		New	High
FCTL, Cooling Town FURNITURE, FIXTO NERC Labs Chairs NWRC Carpet Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture	Envelope and Site Repairs	350,000	Resurface pitted aluminum frames, fix uneven steps, clean gutters	New	High
FURNITURE, FIXTON NERC Labs Chairs NWRC Carpet Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture DIVISIONAL PRIO	ovation to single stop office space		1/2 RACP funding	New	High
NERC Labs Chairs NWRC Carpet Rep Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture	ver, Music Area, Plano Lab etc.	926,220	Spending on 2021 ongoing Projects	C/O	High
NERC Labs Chairs NWRC Carpet Rep Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture	Subtotal Facility Projects	15,980,110			
NWRC Carpet Rep Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture	URES & EQUIPMENT PURCHASES				
Replacement of C Learning Library F Interior Wayfindir Subtotal Furniture	• •		Per ND 9/21/2020 email	C/O	Medium
Learning Library F Interior Wayfindir Subtotal Furniture DIVISIONAL PRIO		63,400		C/O	Medium
Interior Wayfindir Subtotal Furniture <u>DIVISIONAL PRIO</u>	lassroom Tablet Armchairs	360,000		C/O	High
Subtotal Furniture DIVISIONAL PRIO		834,000	All FF&E reqs generated except for gallery and maker space Spending on 21 on-going projects	C/O	High
DIVISIONAL PRIO	ik zikuake	34,105	Speciality on 21 on going projects	L/U	High
	e, Fixtures & Equipment Purchases	1,322,605			
	RITIES				
Iviatii, Science & i	Health Careers	34,332	Lab Equipment	C/O	High
Workforce & Ecor			Incubators,Consolidation of 10KSB within CBI	New	Medium
	Subtotal Divisional Priorities	446,832			
	TOTAL	17,749,547			

ATTACHMENT C

Ernest Bock & Sons, Inc.
Change Order One for the Career &
Advanced Technology Center Project

Breakdown:

Unforeseen concrete and asbestos pipe during excavation	\$16,109.00
Multiple unforeseen conditions during demolition	\$37,705.00
Sanitary tie in location documented improperly	\$30,226.00
Credit - Stair #2 - Railing Change	(\$4,950.00)
Credit - Dumpster Enclosure Railing Change	(\$4,677.00)
Intumescent Fireproofing Additions	\$45,428.00
Added Steel - RFI# 95, 99, 101 & 102	\$42,055.00
Bulletin #5 - Glass Marker Boards & Blocking for Cleartouch	\$44,343.00

Total: \$206,239.00