
Success & Equity Through Quality Instruction

Bringing Faculty into the Student
Success Movement

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Every student deserves a strong start in their first year of college. This toolkit is part of a SSTF three-part series, providing resources to assist postsecondary leaders design and implement reform strategies that support equitable outcomes for students who are marginalized and racially minoritized.



ACUE

Student Success
Through Exceptional
Teaching

SOVA



STRONG START
to FINISH

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Executive Summary

Higher education has adopted a wide range of *student success* interventions to help many more students graduate with the skills, knowledge and dispositions needed for the opportunities they seek. These range from advising, use of predictive analytics, and open educational resources to re-structured degree programs, co-requisite remediation, co-curricular opportunities and integrated supports, to name just a few.

As helpful as these interventions are, attainment projections suggest that we're still meaningfully off track. In the coming decades, if national trajectories don't change, too few of today's students — including Black, Latinx, Indigenous students, returning adults and students from low-income families — will hold a college degree.¹

The Role of Faculty

Increasingly, colleges and universities are recognizing the critically important role of faculty in student success efforts. Students spend more time with their professors than any other college professional, be it in person or virtual. For many of today's students — juggling academic, family and work responsibilities — time in class is the best, sometimes only, opportunity to help them succeed.² Plus, COVID-19 powerfully demonstrated the importance of faculty: campuses shuttered but educators ensured that teaching and learning were sustained.

Research has identified teaching practices that, when used by faculty, create engaging and inclusive learning conditions, make content relevant, promote deeper learning, and develop lifelong skills.³ Studies confirm that students achieve at higher levels, more equitably among student sub-groups, when professors design and deliver courses using these evidence-based approaches.⁴ Moreover, graduates are twice as likely to be living fulfilling lives and doing rewarding work when taught well by a faculty member who took an interest in students' lives, got them excited about learning, and assigned meaningful and relevant work.⁵

1. Nettles, M. T. (2017). *Challenges and opportunities in achieving the national postsecondary degree attainment goals*. ETS Research Report Series, 1–72.

2. Education Advisory Board. (2015). *Defining the faculty role in student success: Building ownership for student progression among individual faculty and distributed academic units*. [MacCormack, P., Reilly, K. P., & Brailow, D. G. \(2019\). Creating value. Change: The Magazine of Higher Learning, 51\(4\), 40–47.](#)

3. Sekel, J. C. (July 2018). The essentials of college instruction: A comprehensive bibliography. Association of College and University Educators.

4. Gyurko, J., & Snow, M. (2020). Our "Directive": Quality Teaching and Learning. *Change: The Magazine of Higher Learning*, 52:5, 6–16.

5. Gallup. (2014). Great jobs, great lives. A study of more than 30,000 college graduates across the U.S. Gallup-Purdue Index report; Gallup. (2015). Great jobs, great lives. The relationship between student debt, experiences and perceptions of college worth. Gallup-Purdue index 2015 report.

Yet through no fault of their own, faculty aren't prepared to use these evidence-based and equity-promoting teaching practices. Comprehensive training in pedagogy is largely absent from most PhD programs. Hiring often looks to pedigree and publications, creating little reason for graduate training to change. Professional incentives for full-time faculty emphasize service and research. Adjuncts from professions outside of academia, such as nursing, law and the building trades, to name just a few, are experts in their fields but not necessarily in how to teach those vocations well. Valuable in-service resources, such as on-campus teaching centers, are typically understaffed and only frequented by the interested few.

Teaching and Developmental Education Reform

Quality instruction is particularly important in the reform of developmental education, where students are disproportionately Black, Latinx, Indigenous and those from families with low incomes and from underserved communities. For example, the Guided Pathways model of dev ed reform⁶ defines clear and coherent pathways of study and helps students choose and stay on their chosen path through integrated advising. But within this approach, colleges must give greater attention to what happens among faculty and students, in class and online, to help students stay on their chosen path and ensure learning, Pathways' fourth pillar. Policymakers may be "paying more attention to this area,"⁷ but there is still much more work to do if we are to ensure that faculty have the support they seek so that students get the quality of education they deserve.

A Holistic Plan of Action

It will require more than a professional development workshop here or there to fully engage faculty in student success efforts and ensure that students benefit from evidence-based and equity-promoting instruction, resulting in outcomes that are indistinguishable by race, ethnicity, socioeconomic status or gender. The change we seek requires a holistic plan of action across five domains: **strategy, equity, approach, evaluation and culture.**



6. Bailey, T. R., Jaggars, S. S., & Jenkins, D. (2015). *Redesigning America's Community Colleges: A Clearer Path to Student Success*. Harvard University Press.

7. Scott, D., Dizon, J.P.M., & Kezar, A. (2019). *State of the Faculty: 2018 Report*. University of Southern California, Pullias Center for Higher Education.

How This Toolkit Helps

This toolkit addresses each of the five domains. It provides helpful resources and rubrics for colleges and universities to self-assess current efforts in each domain. The rubrics, along with “questions to consider,” can assist strategic planning and build consensus on new actions to take. These resources and rubrics are followed by illustrative “practice profiles” that showcase colleges and universities making changes in one domain or more. The domains and recommended actions are based on decades of research and informed by ACUE and Sova’s work with hundreds of institutions and tens of thousands of faculty members nationwide.

How to use this toolkit

This toolkit provides helpful resources and rubrics for colleges and universities to self-assess current efforts in each domain.

- **Five domains:** Each domain includes an overview, questions to consider, a self-assessment rubric and resources for more information.
- **Policy Typology:** An overview of the policy implications of each domain.
- **Measures of Structural Change:** An overview of how to measure the extent to which an institution is fostering an environment conducive to the highest levels of faculty development.
- **Practice Profiles:** Short stories that highlight colleges doing exceptional work; one for each domain.

Key Takeaways



Strategy domain

- Incorporate teaching and faculty support in your strategic plan. Align to your student success goals, involve faculty and measure.
- Identify sufficient resources and measure your return.
- Review your standards and align professional development to support criteria for accreditation.

Equity domain

- Prioritize equity in strategic plans.
- Be intentional about the language used; have inclusive conversations.
- Ensure your campus culture supports a growth mindset.
- Explicitly address equity issues in your faculty development.
- Disaggregate student data; gather feedback on campus climate.

Evaluation domain

- Measure faculty learning and implementation of practices.
- Measure student engagement and learning, and disaggregate data.
- Measure impact on completion, retention, and financial and admissions figures.
- Identify the infrastructure and resources needed to properly evaluate efforts.

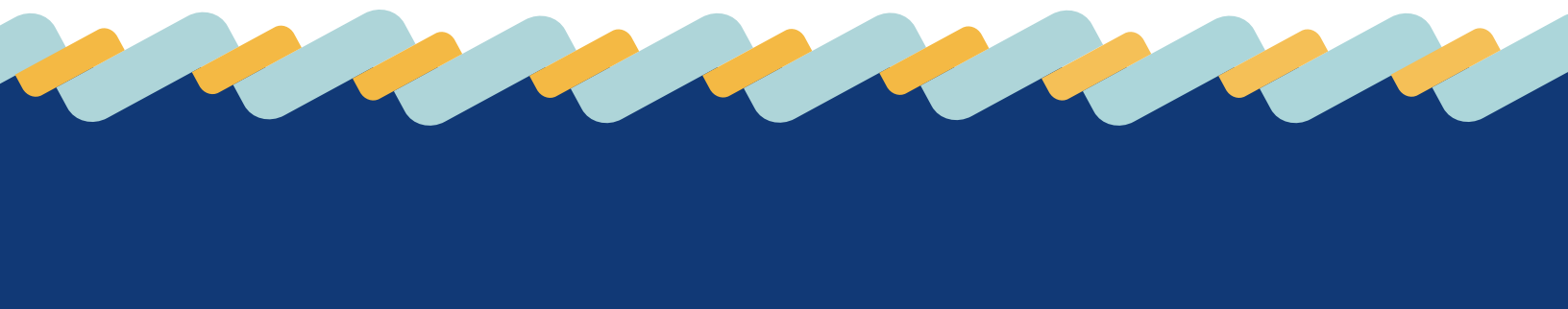
Approach domain

- Ensure faculty development addresses a comprehensive set of core competencies and practices.
- Evaluate whether or not offerings are evidence-based.
- Offer professional learning opportunities year-round, on a weekly or monthly basis and consistently throughout the year.
- Create an evidence-based learning design that engages faculty as learners, encourages collaboration, promotes autonomy and requires application.
- Determine what percentage of faculty participate in professional learning offerings, and make sure that all types of faculty and staff have access to opportunities.

Culture domain

- Celebrate great teaching through internal communications and special announcements.
- Determine incentives that can be utilized to reward quality instruction.
- Establish clear expectations for faculty around instructional development; consider employment offers and contracts to make expectations explicit.

"It will require more than a professional development workshop here or there to fully engage faculty in student success efforts."



The Core Principles and Role of Faculty

Strong Start to Finish's [Core Principles](#) provide guidance on the overarching shape of developmental education reform. As the below table shows, faculty play an important role in advancing all seven Principles.

Principle 1: Identify academic direction and supports

Every student's postsecondary education should begin with a well-designed process that empowers them to choose an academic direction and build a plan that starts with passing credit-bearing gateway courses in the first year. This principle assumes that programs of study are clearly designed and communicated.

Role of Faculty

Faculty must be part of this design process to ensure that their expertise is reflected in course outcomes and the sequencing of courses to achieve program-level learning outcomes.

Principle 2: Enroll in college-level math and English

Every student should be placed in courses based on multiple measures, using evidence-based criteria, instead of through a single standardized test. Historically, too many students capable of college-level work were misassigned to remedial courses bearing no credit. But better placement is just a start.

Role of Faculty

Once enrolled, students should experience courses replete with evidence-based teaching practices from well prepared and supported faculty.

Principle 3: Provide supports

Campus communities need to assess, and as needed, transform policies and practices to ensure that every student is provided with high-value learning experiences, with the supports needed to remove barriers to success — especially students from historically underrepresented, disenfranchised and minoritized communities.

Role of Faculty

Only well-prepared faculty, versed in a comprehensive set of teaching approaches, can create the conditions for high-value learning experiences. In particular, faculty must possess the evidence-based and inclusive teaching approaches and use them with the intention to promote equity in order to better support underserved students and close equity gaps.

Principle 4: Streamline remediation options

Program-appropriate college-level math and English courses should be offered to every student through evidence-based, integrated support models designed to accelerate gateway course success.

Role of Faculty

Out-of-class supplemental supports are just that—supplemental to students' primary interactions with faculty, which must be of the highest quality.

Principle 5: Align courses with programs of study

Every student is provided access to multiple pathways, such as statistics and data science, that integrate rigorous math appropriate to different disciplines and to the well-paying careers of today and tomorrow.

Role of Faculty

Faculty are essential to the alignment of courses within programs; only faculty can ensure students master learning outcomes through teaching practices that make content relevant, surface prior knowledge, and help students build new knowledge and skill.

Principle 6: Use data effectively

Every student is supported in staying on track to a postsecondary credential through the institution's effective use of early momentum metrics and mechanisms to generate, share and act on finely disaggregated student progression data.

Role of Faculty

Faculty are best positioned and have the most consistent contact with students, to collect — and act — on real time qualitative and quantitative data.

Principle 7: Prioritize the student experience

Efforts must be made to improve the student experience, meet the evolving needs of students, and remove barriers to student success. The institution will demonstrate this prioritization by using mechanisms that elevate the voices and lived experiences of students — and the entire campus community.

Role of Faculty

For many students juggling a variety of responsibilities who may only have time for class — courses and faculty define their college experience.

Five Domains

This toolkit provides helpful resources and rubrics for colleges and universities to self-assess current efforts in each domain: strategy, equity, approach, evaluation and culture. Here you will find questions to consider, a self-assessment rubric and resources for more information.



Domain 1: Strategy

SSTF Principles
Addressed:
1, 2, 3, 4, 5, 6, 7

To what extent is quality teaching part of your strategy?

Your strategic plan likely begins with ambitious goals to improve graduation rates and close institutional performance gaps⁸ between student sub-populations based on race, ethnicity, gender and income. It may also specify a variety of student success interventions — such as those in Figure 1 — intended to achieve these outcomes.

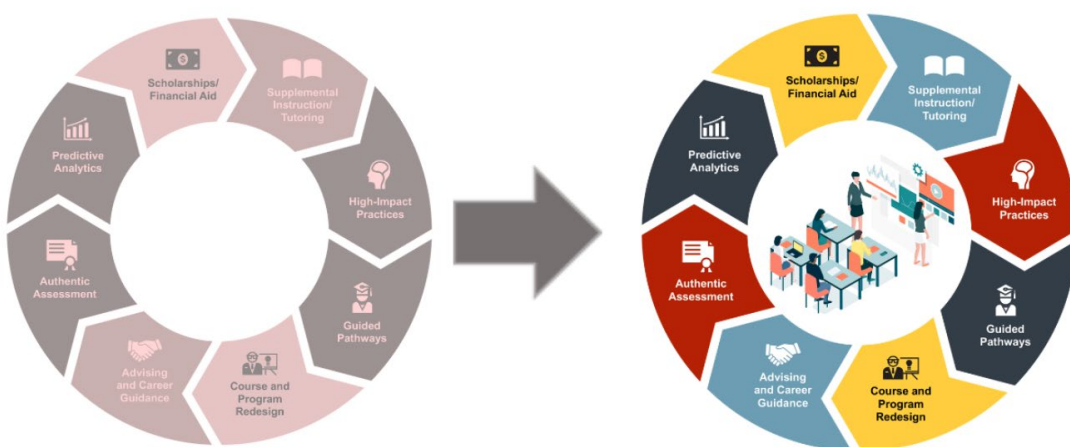


Figure 1. Centering faculty, teaching and learning in a student success strategy.

But on close examination, most if not all student success interventions assume — and rely on — effective teaching delivered by faculty who know and use evidence-based and equity-promoting teaching practices.

For example, supplemental tutoring assumes that students have already benefited from quality teaching in their courses. Predictive analytics are only useful when educators and staff have the skills necessary to act on individualized data. The best designed courses, programs and pathways are only brought to life by well-prepared instructors. Some high-impact practices, such as collaborative assignments and projects, assume that faculty can skillfully establish and manage students' interpersonal dynamics necessary for deeper, shared learning.

8. Although "achievement gaps" between students of different race, ethnicity, income and gender is a more commonly used term, we use the expression "institutional performance gaps" to emphasize an institution's responsibility to help students achieve at levels indistinguishable by student sub-group.

“Strategy” Questions to Consider

Your Strategic Plan

- Does your strategic plan discuss the importance of teaching and support to faculty?
- In specific regard to support for faculty, does the plan include measurable objectives, timelines and plans to evaluate impact of professional learning opportunities?
- How well aligned to student success goals are these objectives?
- Were faculty involved in the development of the strategic plan? Did they have a voice in the expectations set for their responsibilities related to student success and the support they need to meet these expectations?
- Are all student success stakeholders, from across the institution, aligned in their beliefs regarding the role of faculty and impact of quality teaching on student success?

Budget, Resources and ROI

- To what extent is your strategic plan, including faculty support, resourced with staff and funding?
- Are resources sufficient to support some, most or all faculty in meeting shared expectations for the role of faculty in student success efforts?
- To what extent are you estimating the degree to which increased student retention and graduation is attributable to investment in faculty and quality instruction?
- Is the chief financial or business officer conducting analysis of the financial return on investment (ROI) in faculty?
- To what extent is faculty support understood as a human capital investment, with a long-term financial benefit, rather than simply another cost?

Role of Professional Development in Accreditation

- What role does evidence-based instruction and high-quality faculty support — as part of your success strategy — play in your re-accreditation?
- How intentional are professional development opportunities?
- Are opportunities merely offered, or more strongly expected, through a range of formal and informal incentives and institutional culture?
- In your self-study, what evidence supports the impact of these activities? What is shared with peer reviewers?

Self-Assessment Rubric: Strategy

The following rubric provides guidance on how to embed quality teaching, through high-quality professional learning opportunities for faculty, into your strategy. How would you rate your institution?

Strategy	The institution ... Makes high-quality professional learning opportunities for faculty part of its strategic plans for student success, including reform of developmental education, at scale.	Strategic Plan			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Plan mentions quality teaching and support to faculty.	Plan includes measurable goals for quality teaching and support to faculty.	Plan includes measurable goals for quality teaching and support to faculty, timeline for implementation and evaluation.	Plan makes explicit connection between professional learning opportunities for faculty, quality teaching, and the role of faculty in student success; plan includes measurable goals, timeline for implementation, evaluation and communications activities.
		Budget, Resources and ROI			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Few resources allocated, small numbers of faculty engaged.	Specific resources allocated for some faculty.	Sufficient resources allocated to support large numbers of faculty, with a plan to estimate return on investment (ROI).	Sufficient resources allocated to support all faculty, with evaluation and analysis to regularly determine ROI.

Strategy	The institution ...	Accreditation			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
	Makes high-quality professional learning opportunities for faculty part of its strategic plans for student success, including reform of developmental education, at scale.	Quality teaching and support to faculty is mentioned in self-study.	Quality teaching and support to faculty is a meaningful part of self-study.	Quality teaching and support to faculty is a substantial part of self-study with some evidence of faculty impact.	Quality teaching and support to faculty is a substantial part of self-study with strong evidence of faculty and student impact.

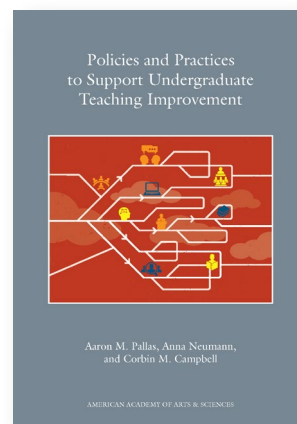
A Note on the Rubric

The four-level rubric presented in each domain is aligned to the Institutional Transformation Assessment (ITA) published by the Bill & Melinda Gates Foundation (2020). The ITA helps an institution determine the degree to which it “provides faculty and staff with regular, high-quality professional learning opportunities that meet their needs and help improve their practices.” The rubric in this toolkit provides more detailed guidance on practices and policies that constitute such learning opportunities, including how to create inclusive learning conditions with culturally responsive pedagogies that promote an equity mindset among faculty and more equitable outcomes among students.

Highlighted “Strategy” Resource

[“Policies and Practices to Support Undergraduate Teaching Improvement”](#)

In this short guide published by the **American Academy of Arts & Sciences**,⁹ scholars Aaron M. Pallas, Anna Neumann and Corbin M. Campbell focus attention on undergraduate teaching. This practical resource describes an institutional context that neglects teaching, followed by recommended policies and practices necessary to make “teaching improvement ... [a] coordinated activity at multiple levels of the academic enterprise.”



Additional “Strategy” Resources

Complete College America is a national advocate for dramatically increasing college completion rates and closing institutional performance gaps. It works with states, systems, institutions and partners to scale highly effective structural reforms and promote policies that improve student success. CCA helps colleges identify gaps, develop action plans and implement proven strategies that transform the student experience.

[“Estimating the Return on Investment \(ROI\) for Instructional Improvement Efforts,”](#) commissioned by the American Council on Education and developed by Ithaka S+R, provides a methodology for cost-benefit analysis of faculty professional learning opportunities.

[“The Future of Undergraduate Education, The Future of America,”](#) a major report published by the American Academy of Arts & Sciences, emphasizes the importance of quality instruction.

Phase Two Advisory weaves research, strategy and project management to help practitioners identify the best way to move from idea to action. It has deep expertise in the design and implementation of onboarding and holistic student services redesign, process mapping foregrounding the student experience, workshop facilitation and implementation research.

Student Ready Strategies assists colleges and universities as they make transformative changes to culture, practice and outcomes. Services range from high-level strategic plans that provide a blueprint for long-term success, to tactical business plans that outline a core value proposition and key internal capacities.

[“Why Colleges and Universities Need to Invest in Quality Teaching More than Ever,”](#) published by ACUE, draws together evidence from a variety of fields to show the nexus between teaching, learning and institutional success.

9. American Academy of Arts & Sciences. (2017). The Future of Undergraduate Education, The Future of America. Commission on the Future of Undergraduate Education.

Domain 2: Equity

SSTF Principles
Addressed:
1, 2, 3, 4, 5, 6, 7

At your institution, to what extent is quality instruction promoting greater equity of educational opportunity and achievement?

Historically, the bell curve was a deeply embedded structural model for how we think, talk, make policies and implement practices about students and their achievements. But this orientation is bedeviled with inequity, given that it presumes that some students will do well and some poorly, with students too often distributed by race, gender and socioeconomic status. One recent study, which is part of a larger literature, shows the detrimental effects of these mindsets to Black, Latinx and Indigenous students.¹⁰

Fortunately, higher education is embracing an equity-minded approach — one in which we take greater responsibility for the successful education of each and every student, as individuals. Higher education is looking at more finely disaggregated outcome data by sub-groups of students to direct resources where they are needed most. Without question, there will always be differences in student outcomes based on innate talents, effort and life circumstances. But this growing equity orientation allows, and expects, more students to meet our expectations and without lowering standards.

Research has identified specific mindsets, language and practices that support students who were underserved by their prior educational experiences. Moreover, interrogating our practice can ensure that we don't unintentionally make students feel invisible or turn them off — and out — of college, foreclosing the opportunity we seek to provide.

Once enrolled and engaged, there are evidence-based approaches that make content relevant, deepen learning and spur persistence to course completion and graduation — ensuring the outcomes we seek. Such instructional practices can promote student achievements that are indistinguishable by race, gender or socioeconomic status — the very definition of equity.¹¹

10. Canning, E. A., Muenks, K., Green, D. J., & Murphy, M. C. (2019) STEM faculty who believe ability is fixed have larger racial achievement gaps and inspire less student motivation in their classes. *Science Advances*. American Association for the Advancement of Sciences.

11. Eddy, S. L., & Hogan, K. A., (2017). [Getting Under the Hood: How and for Whom Does Increasing Course Structure Work? CBE—Life Sciences Education](#), 13(3). Lawner, E., & Snow, M. (2020). [Advancing academic equity at Broward College: Improved course completion and passing, Particularly among Pell-eligible and Black students](#). Association of College and University Educators.; Association of College and University Educators. (2018). [More As and fewer Fs across 150 classes, enrolling 4,582 CCSE students, taught by ACUE-credentialed faculty.](#); Association of College and University Educators. (2019a). [Completion gap closed for Black/African American students at Texas Woman's University: Improved course completion for students taught by ACUE-credentialed faculty.](#); Association of College and University Educators. (2020). [Inclusive and Equitable Teaching](#). ACUE Curriculum Crosswalk.

“Equity” Questions to Consider

Leadership

Achieving equity across higher education is an ambitious undertaking that begins with leadership.

- To what extent does your leadership prioritize equity in strategic plans and communications?
- Do finely disaggregated goals exist, against which actions can be taken, to close institutional performance gaps?
- How well are equity goals known and embraced by all stakeholders with planned equity-advancing actions resourced by leadership?
- Is equity of opportunity and achievement for Black, Latinx, Indigenous, Pell-eligible and other subgroups of under-served students an institutional imperative?

Language

To what extent does deficit language predominate, referring to underprepared students needing remediation, and allow a pessimistic culture to persist?

- Does such deficit language unintentionally put the burden (and blame) of academic preparation on the student, rather than on prior educational experiences?
- Alternatively, does asset language dominate your policies, practices and campus culture, generating an optimistic culture?
- How intentional and resourced is the campus-wide conversation on issues of equity?
- Who’s in the conversation? Who’s not? How can you bring them in?

Mindset

Our mindset affects our speech, actions and the responses of others. Unintended biases can influence who we expect should do well and who shouldn’t — becoming self-fulfilling and unconscious prophecies. Just as we approach our disciplines with prior assumptions and theoretical orientations, we must approach teaching and students with equitable beliefs about their ability to learn, irrespective of their race/ethnicity, socioeconomic status or gender, as well as the educational opportunity gaps that we have the ability to close.

- To what extent do unintended biases in classes, majors and across the institutions limit expectations for students and their achievements?
- To what extent do you and your colleagues believe in your own agency to impact how students perceive their ability to learn and meet your expectations?
- In what ways is a growth mindset reflected in campus language, practices and policies and in how students are talked about and with, in your everyday interactions?

Professional Development Content

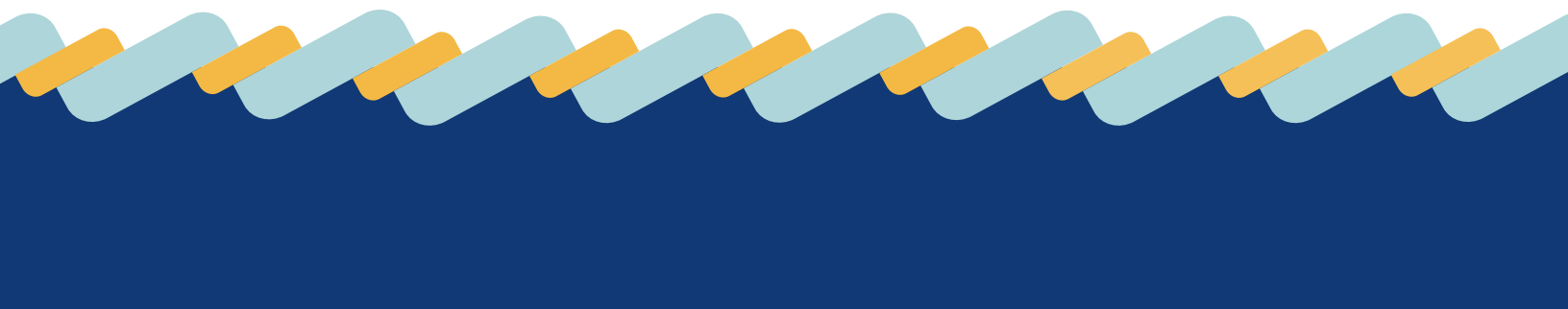
- Are a growth mindset and equity mindedness explicit components of faculty development?
 - So that faculty can deepen their own sense of self-efficacy — their belief about their ability to help each and every student learn?
 - As well as faculty members’ beliefs about their own ability to learn and implement teaching approaches shown to promote a growth mindset among students?

- To what extent does professional development content:
 - Dive deeply into issues of equity, including how to examine and manage one's biases, and identify and avoid micro-aggressions and stereotype threats?
 - Provide faculty with opportunities to develop inclusive approaches, sometimes collectively referred to as culturally responsive pedagogies?
- How widespread is such awareness and practice across your entire faculty, and how do you know?

Feedback and Data

- Is student outcome data gathered and finely disaggregated by student sub-groups, including Black, Latinx, Indigenous and Pell-eligible students, and used to inform equity-promoting actions?
- In what ways do you address these differences in outcomes at your institution, to support the success of students whose outcomes are consistently and systematically less than other subgroups?
- Are gaps between and among student subgroups described in the affirmative, to not blame the students, and take responsibility for closing the differentials?
- Are institutional performance gaps described as the institution's responsibility to close?
- To what extent is student feedback gathered about campus climate above and beyond student academic achievement, rates of course completion, and retention to graduation?
- What is the response to student feedback about campus culture?

"Achieving equity across higher education is an ambitious undertaking that begins with leadership."



Self-Assessment Rubric: Equity

The following rubric provides guidance on how to promote greater equity of educational opportunity and achievement through quality instruction and high-quality professional learning opportunities for faculty. How would you rate your institution?

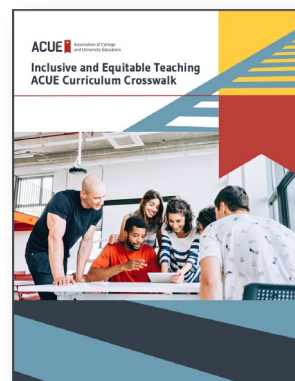
Equity	The institution ... Helps faculty create a productive mindset and develop practices that create inclusive learning conditions with culturally-responsive pedagogies that promote more equitable student outcomes.	Leadership			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Little to no evidence that equity is prioritized.	Some evidence that equity is prioritized in strategic plan and periodic communications.	Equity prioritized in strategic plan, campus-wide in initiatives, regular communications, and student success services with some evidence of closed institutional performance gaps.	Equity prioritized in strategic plan, regular communications, student success services, course design and delivery, admissions, financial aid and other operations with strong evidence of closed institutional performance gaps.
		Language			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Dominant use of “deficit” language that is problem-focused, e.g., “under-prepared,” “achievement gap” and “remedial” that may unintentionally place blame on the student rather than shared responsibility with the institution.	Mix of deficit and “asset” language that is solution-focused and recognizes institutional responsibilities, e.g., “under-served,” “institutional performance gaps” and “developmental”.	Intentional and institution-wide commitment to transforming language in policies, practices, courses and services to “asset” paradigm.	“Asset” paradigm pervasive in language across the institution.
		Language refers to “all students” without reference to, and may overlook, specific subpopulations or individuals.	Language focuses on all students with some reference to sub-populations and individuals.	Language more precisely speaks to the institutions various subpopulations of students.	Consistent and pervasive use of language that reflects a good understanding of student sub-populations and individuals.

Equity	The institution ... Helps faculty create a productive mindset and develop practices that create inclusive learning conditions with culturally-responsive pedagogies that promote more equitable student outcomes.	Mindset			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Fixed mindset about students and their abilities dominates.	Mix of fixed and growth mindset about student abilities.	Intentional and institution-wide commitment to transforming mindset among administrators, faculty and staff to one of growth and ability.	Growth mindset is pervasive across the institution.
		Content			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Professional development opportunities for faculty and staff address few to no inclusive teaching practices, growth mindset or equity-mindedness.	Professional development opportunities for faculty and staff address a subset of inclusive teaching practices, growth mindset or equity-mindedness.	Professional development opportunities for faculty and staff address a comprehensive body of inclusive teaching practices, growth mindset and equity-mindedness.	Professional development opportunities for faculty and staff address a comprehensive body of inclusive teaching practices, growth mindset and equity-mindedness, with follow-up mechanisms to support implementation, reflection and refinement of recommended approaches.

Equity	The institution ...	Feedback and Data			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		No clear mechanisms to collect student views on issues of diversity, equity or inclusion.	Episodic mechanisms to collect student views on issues of diversity, equity or inclusion.	Anecdotal student evidence suggests a culture that fosters diversity, equity and inclusion.	Students are regularly and systematically asked — and report in high numbers — experiencing an institutional culture that embraces diversity, equity and inclusion.
		No clear mechanisms to understand the extent to which teaching is inclusive, embraces diversity, and promotes more equitable outcomes.	Episodic mechanisms to understand the extent to which teaching is inclusive, embraces diversity, and promotes more equitable outcomes.	Anecdotal evidence suggests that faculty typically implement, reflect on, and adjust their teaching to create inclusive learning environments that promote more equitable outcomes.	Measures are in place to confirm that faculty regularly implement, reflect on and adjust their teaching to create inclusive learning environments that promote more equitable outcomes.
		Summative or formative student outcome data not collected, disaggregated, analyzed or acted on.	Some summative or formative student outcome data not collected, disaggregated, analyzed or acted on.	Summative and formative data are collected, disaggregated, analyzed and acted on by some departments or offices.	Summative and formative data are collected, disaggregated, analyzed and acted on, in real time across the institution.

Highlighted “Equity” Resource

ACUE’s curriculum crosswalk [“Inclusive and Equitable Teaching”](#) demonstrates how evidence-based teaching practices align with the principles of inclusive instruction for equitable outcomes. As this publication notes: “Inclusive teaching practices help all students learn, but are especially beneficial to students ... traditionally underserved by institutions of higher education.” The resource draws on resources from the **Center for Teaching and Assessment of Learning at the University of Delaware**, a recipient of the 2018 Higher Education Excellence in Diversity Award, and the **University of Michigan’s Center for Research on Learning and Teaching**, among others.



Additional “Equity” Resources

Student Ready Strategies’ Vanessa Keadle identifies an opportunity to promote greater equity in [“Deficit Language in Course Descriptions,”](#) a Strong Start to Finish “Points of Interest” paper.¹²

The Center for Urban Education’s [“Racial Equity Tools”](#) takes an organizing perspective, recommending flexible approaches with practical activities that support a race-focused continuous improvement process. Four phases of work address “Laying the Groundwork,” “Defining the Problem,” “Creating Solutions through Inquiry” and “Sustaining and Scaling the Work.”

The “Equity Scorecard” helps institutions to reduce higher education gaps for racial and ethnic groups, as described in [“Confronting Equity Issues on Campus: Implementing the Equity Scorecard in Theory and Practice.”](#)¹³

ACUE’s [“Inclusive Teaching Practices Toolkit”](#) is an open-access resource for self-directed use. It recommends ten foundational and evidence-based practices for inclusive teaching that promote more equitable learning. It includes instructional videos, expert interviews, and is aligned to the ACUE’s Effective Practice Framework and credentialing programs.

[“Ensure All Students are Learning”](#) equity tools, published by the Center for Community College Student Engagement, provides “tools, issue briefs and spotlight series documents,” that “explore equity-centered practices that college professionals — including faculty, department chairs, deans and directors — can employ to ensure all students are learning.”

12. Keadle, V. (2020). Deficit Language in Course Descriptions. Strong Start to Finish.

13. Bensimon, E. M., & Malcom, L. E. (Eds.) (2012). Confronting equity issues on campus: Implementing the equity scorecard in theory and practice. Sterling: Stylus Publishing.

Domain 3: Approach

SSTF Principles
Addressed:
2, 3, 5, 7

At your institution, to what extent do faculty participate in regular, high-quality professional learning opportunities that promote student success and equity? In other words, how comprehensive is your approach to faculty support and development?

For too long, faculty have been asked to teach every student well, including students underserved in their prior education, and prepare them to graduate as contributing members of society — with nary any training in effective instruction.

Without question, America's 1.5 million professors are experts in their fields. The vast majority of college educators, though, have not been equipped to use evidence-based teaching practices. That said, when faculty use the evidence-based skills that empower their own craft, we can expect faculty to empower students to reach their full potential.

Approach Questions to Consider

Comprehensiveness

Effective teaching, like other highly skilled professions, requires a range of practices that are integrated with sophistication. Yet too often, professional learning opportunities address only a topic here or a hot-button issue there, when a comprehensive approach is necessary.

- Are your professional development opportunities comprehensive?
 - Do they help faculty develop a body of evidence-based practices necessary for both effective and inclusive teaching that promote stronger and more equitable student outcomes?
 - Do they span across areas of course design, active learning, inclusivity, assessment and higher order thinking?
- On this foundation of shared, proven practice, do your faculty members have opportunities to dive deeper into areas of pedagogical specialization, to teach online or with discipline-specific approaches?

Professional Development Content

- To what degree is the professional development evidence-based?
- How practical is the guidance of your professional development offerings?
 - Does it lean toward the theoretical, leaving educators with a clear sense that something is important — like equity — without answering “how” to achieve it?
 - Or does professional learning also include specific practices that answer the question: “How do I do it?”

- Are a variety of practices recommended, to allow faculty to choose what to implement based on their context, their students and their course learning objectives?

Frequency

Developing new skills takes time, practice and consistent effort. The regularity with which your institution expects and supports professional development is also a reflection of priorities.

- To what extent are professional learning opportunities episodic and one-off, such as a professional development weekend?
- Or are opportunities frequent, such as week-to-week and month-to-month, so that evidence-based practices become part of one's daily practice?

Delivery

Some delivery methods for professional development and training are more effective than others, as measured by the learning and implementation of new practices. In your offerings:

- Are opportunities for professional learning job-embedded and relevant to a faculty member's current context?
- Do they include pre- and in-service elements, treating the development of one's practice as a career-long endeavor?
- Are there opportunities for collaboration with colleagues?
- Are offerings facilitated by an expert or coach who provides real time feedback?
- Do they offer choices of evidence-based practices so faculty members can decide what will work best in a particular context, and to deepen motivation?
- Is implementation required, to ensure that best-practices are put into use?
- Do offerings include structured reflection for faculty to self-assess what went well, what refinements to make going forward, and to deepen their own learning?

Scale

- To what extent are professional development efforts offered at scale?
 - Do only interested faculty take advantage of professional learning opportunities?
 - Or are offerings provided at sufficient scale, and with sufficient encouragement or requirement, to engage all faculty and ensure evidence-based instruction for all students, campus-wide?

Self-Assessment Rubric: Approach

The following rubric provides guidance on how to assess the strength of your approach to faculty support and development, regarding the extent to which faculty participate in regular, high-quality professional learning opportunities that promote student success and equity. How would you rate your institution?

Approach	The institution ... Implements regular, high-quality professional learning opportunities for faculty and staff that promote student success and equity.	Content			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Theoretical, absent of practical takeaways, with little-to-no basis in evidence.	Generic, with some practical takeaways and some basis in evidence.	Practical with a good basis in evidence.	Specific, contextualized to one's students, with a strong basis in evidence.
		Comprehensiveness			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Single-topic, addressing a core instructional concept.	Subset of core, evidence-based instructional competencies necessary to create the conditions for stronger, more equitable student outcomes.	Comprehensive body of evidence-based instructional competencies necessary to create the conditions for stronger, more equitable student outcomes.	Comprehensive body of evidence-based instructional competencies necessary to create the conditions for stronger, more equitable student outcomes with follow on support for continuous development in areas of specialization (e.g., online instruction, discipline-specific strategies/pedagogical content knowledge).
		Frequency			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Episodic, one-off.	Short duration.	Longer duration.	Regular and recurring.

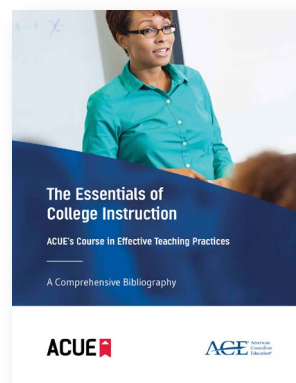
Approach	The institution ... Implements regular, high-quality professional learning opportunities for faculty and staff that promote student success and equity.	Delivery			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Workshops or webinars, consultations.	Workshops or webinars, consultations, short duration courses/trainings.	Workshops or webinars, consultations, short duration online and in-person courses/trainings.	Workshops or webinars, consultations, short and long duration online and in-person courses/trainings.
		Pre-service.	Pre-service or in-service.	Pre-service and job-embedded in-service.	Pre-service and job-embedded in-service.
		Little to no collaboration with colleagues.	Some collaboration with colleagues.	Collaboration with colleagues within and across departments.	Collaboration with colleagues within and across departments with in-depth discipline specific discussion and action.
		Unfacilitated.	Self/group facilitated.	Peer facilitated.	Expert facilitated.
		Few if any practical teaching approaches recommended.	Some practical teaching practices recommended.	Choice of recommended teaching practices.	Choice of recommended teaching practices relevant to large and small classes, in-person, online and hybrid settings.
		Implementation suggested.	Implementation encouraged.	Implementation required.	Implementation and self-reflection required.
		Scale			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Few (~2% or less of faculty engaged).	Some (3% to 16% of faculty engaged).	Many (17% to 84% of faculty engaged).	Most (85% to 100% of faculty engaged).

Highlighted “Approach” Resource

[ACUE’s Effective Practice Framework®](#) identifies 25 core teaching competencies, organized into five major areas of practice, that constitute the evidence-based teaching approaches that every professor should possess, regardless of discipline or type of institution. These five areas help professors:

- **Design an effective course**, with approaches for redesigning courses and syllabi, to better define and achieve desired student outcomes.
- **Establish a productive learning environment**, with practices that build relationships, embrace diversity, help students persist and create an environment that supports learning.
- **Use active learning strategies** that promote and leverage active learning, and to plan and facilitate engaging discussions.
- **Promote higher order thinking**, with practices that deepen learning and help students take greater ownership of their studies.
- **Assess in ways that inform instruction and promote learning**, with methods of formative and summative assessment to promote learning and refine teaching.

The Framework is steeped in an asset-based philosophy that values students’ prior knowledge and experiences. It was developed in collaboration with professors, faculty developers, and experts in teaching and learning. The Framework is supported by more than 300 citations published in [“The Essentials of College Instruction, A Comprehensive Bibliography”](#)¹⁴ and was independently endorsed by the **American Council on Education**.¹⁵



Additional “Approach” Resources

In [“Improving Teaching Through Reflection,”](#)¹⁶ Catherine Haras, Senior Director of the Center for Effective Teaching and Learning at CSU Los Angeles, reviews key research on meta-cognition. Through her center’s offerings, she’s found that “ongoing reflection is seminal to faculty professional development.”

The podcast [“Effective Professional Development for Faculty Engaged in Developmental Education Reform,”](#)¹⁷ features SUNY’s Jennifer Miller on faculty engagement.

Motivate Lab connects rigorous motivation research to professional development. It supports partners interested in leveraging the power of learning mindsets to improve academic outcomes, particularly for students from traditionally underrepresented backgrounds.

[“Teaching at Its Best: A Research-Based Resource for College Instructors,”](#)¹⁸ by Linda Nilson, now in its fourth edition, remains an indispensable guide full of practical advice.

14. Sekel, J. C. (2018, July). The essentials of college instruction: A comprehensive bibliography. Association of College and University Educators.

15. American Council on Education. (n.d.). Contributors to ACE’s Teaching and Learning Scholarship. [Blog post].

16. Haras, C. (2018). Improving Teaching Through Reflection. Association of College and University Educators.

17. 2020

18. Nilson, L. B.. (2016). Teaching at its Best: A Research-Based Resource for College Instructors. John Wiley and Sons.

Domain 4: Evaluation

SSTF Principles
Addressed:
6

At your institution, to what extent are professional learning efforts evaluated to determine what faculty have learned, how they are changing their teaching, and the consequent impact on student success and equity?

"How do we know?" It's perhaps the oldest question of the academe. On what basis do our disciplines stand? And how do we know if our students have mastered the knowledge, skills and dispositions we believe important?

It's fair to ask the same question of efforts to improve the quality of instruction to achieve stronger student outcomes, that are indistinguishable by race, ethnicity, socio-economic status or gender — our definition of equity.

Over the history of college teaching, there is a long tradition of believing that quality instruction is too personal and idiosyncratic to evaluate and measure.¹⁹ This belief persists despite decades of evidence that has identified practices associated with stronger and more equitable student engagement, persistence, learning and course completion. It can be measured.

"Evaluation" Questions to Consider

Faculty Data

- As you examine your professional development efforts, what kind of data do you collect from faculty?
- Above and beyond attendance at professional development activities, how do you ascertain what faculty are learning and implementing?
- Are data self-reported or generated by program analytics, such as through a learning management system? Or gathered through peer observation?

Student Data

- Are students taught by faculty who are developing their teaching practice more engaged in their studies?
- What changes do you see in grades and rates of course completion? Or other authentic measures of learning, such as writing samples?
- To what extent are these data analyzed against comparison data from students taught by similarly situated faculty who have not yet engaged in faculty development activities?

19. [Zimmerman, J. \(2020\). The Amateur Hour, A History of College Teaching in America. Johns Hopkins University Press.](#)

- Are observed differences meaningful? Do tests of statistical significance confirm that the observed differences are not random, but likely associated with quality instruction?
- Are outcomes finely disaggregated by student sub-group, including Black, Latinx, Indigenous and Pell-eligible students, to determine if equity goals are being advanced?

Institutional Data

- Among students taught by faculty who are developing their teaching practice, does better teaching translate into higher rates of retention and program completion?
- If so, and in addition to improved educational outcomes, what is the financial return on investment in faculty and quality instruction?
- Can you discern benefits to your institution's reputation, number of student applications, and acceptance rate due to investment in — and being known for — quality teaching?

Collection Methods and Analyses

- What is the status of your data infrastructure? For example, do you have ready access to course rosters, the assigned instructor and student outcome data?
- Are you able to gather necessary descriptive statistics, such as student and faculty demographics? Are comparison data available for analytical statistics?
- Can faculty and student data be readily combined to make meaningful and disaggregated inferences about the effects of faculty professional development on student outcomes?

"Above and beyond attendance at professional development activities, how do you ascertain what faculty are learning and implementing?"



Self-Assessment Rubric: Evaluation

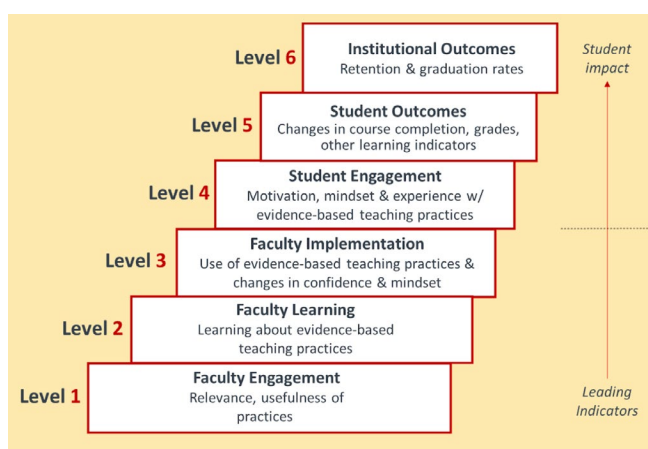
The following rubric provides guidance on how to assess the strength of your assessment of professional development activities, the impact of what faculty learn and do, and the consequent impacts on student success and equity. How would you rate your institution?

Evaluation	The institution ... Evaluates the impact of high-quality professional learning opportunities on faculty and staff, changes in their teaching practices, and the consequent impact on student success and equity.	Faculty Data			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Attendance records, feedback satisfaction surveys.	Attendance records, feedback satisfaction surveys.	Attendance records, feedback satisfaction surveys.	Attendance records, feedback satisfaction surveys.
			Measures of faculty engagement in their own learning.	Measures of faculty engagement in their own learning.	Measures of faculty engagement in their own learning.
				Measures of evidence-based and equity-promoting teaching practices learned.	Measures of evidence-based and equity-promoting teaching practices learned and implemented.
		Student Data			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
				Level of student engagement in their learning, as a result of faculty using evidence-based teaching practices, as determined through course evaluations and surveys.	Level of student engagement in their learning, as a result of faculty using evidence-based teaching practices, as determined through course evaluations and surveys.
				Grades.	Grades. Authentic work product and indicators of learning. Course completion rates.

Evaluation	The institution ... Evaluates the impact of high-quality professional learning opportunities on faculty and staff, changes in their teaching practices, and the consequent impact on student success and equity.	Institutional Data			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
					Recruitment and yield rates. Retention rates. Graduation rates. Financial ROI analysis. Reputational measures.
		Collection Methods and Analyses			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Self-reporting.	Self-reporting.	Self-reporting.	Self-reporting.
				Course/training program analytics (e.g., LMS data).	Course/training program analytics (e.g., LMS data).
				Peer feedback.	Peer observation and feedback by a trained colleague. Written reflections on teaching, teaching journals.
		Little to no analysis.	Aggregated and descriptive statistics.	Aggregated and descriptive statistics.	Aggregated and descriptive statistics.
				Analytical statistics.	Analytical statistics. Longitudinal or cross-sectional comparison data.

Highlighted “Evaluation” Resource

ACUE’s six-level logic model is widely used to guide the evaluation of faculty development programs. The model describes changes among faculty and students in a sequence of leading and lagging indicators. This approach was informed by the work of Donald Kirkpatrick and James Kirkpatrick²⁰ to assess industry training and Thomas Guskey’s²¹ and Susan Hines’²² application to professional development. A detailed explanation of the model can be found in **“Connecting the Dots: A Proposed Accountability Method for Evaluating the Efficacy of Faculty Development and Its Impact on Student Outcomes.”**²³



Additional “Evaluation” Resources

Numerous studies that used this logic model were recently reviewed in **“Our ‘Directive’: Quality Teaching and Learning,”**²⁴ in **Change: The Magazine of Higher Learning.**

“Faculty Development in the Age of Evidence,”²⁵ by Andrea Beach and colleagues, examines the field of faculty professional development and emphasizes the value of data and evaluation.

The American Council on Education has published **“Unpacking Relationships: Instruction and Student Outcomes,”** which includes insights on effective teaching regarding the relationship between instruction and student outcomes²⁶ and **“Institutional Commitment to Teaching Excellence: Assessing the Impacts and Outcomes of Faculty Development.”**²⁷

20. Kirkpatrick, D. L., & Kirkpatrick, J. D. (2007). Implementing the four levels: A practical guide for effective evaluation of training programs. Berrett-Koehler.

21. Guskey, T. R. (2000). Evaluating professional development. Corwin Press.

22. Hines, S. R. (2011). How to evaluate the impact of faculty development programs [White paper]. Magna.

23. MacCormack, P., Snow, M., Gyurko, J., & Sekel, J. C. (2018). Connecting the dots: A proposed accountability method for evaluating the efficacy of faculty development and its impact on student outcomes. Association of College and University Educators.

24. Gyurko, J., & Snow, M. (2020). Our “Directive”: Quality Teaching and Learning. Change: The Magazine of Higher Learning, 52:5, 6–16.

25. Beach, A. L., Sorcinelli, M. D., Austin, A. E., & Rivard, J. K. (2016). Faculty Development in the Age of Evidence: Current Practices, Future Imperatives. Stylus Publishing.

26. Jankowski, N. (2017). Unpacking Relationships: Instruction and Student Outcomes. American Council on Education.

27. Haras, C., Taylor, S. C., Sorcinelli, M.D., & von Hoene, L. (2017). Institutional Commitment to Teaching Excellence: Assessing the Impacts and Outcomes of Faculty Development. American Council on Education.

Domain 5: Culture

SSTF Principles
Addressed:
7

At your institution, to what extent are communications, incentives and other culture-building activities generating faculty and staff enthusiasm — and meaningful participation in — high-quality learning opportunities?

The culture of an institution can accelerate — or bring to a screeching halt — efforts to make evidence-based instruction central to any student success strategy.

The change we seek — to ensure that every student benefits from high-quality instruction — is an iterative process. New professional development efforts can create the proof of practice necessary for adoption at scale. Positive momentum around these activities can grow a culture that prizes and rewards great teaching, just as that culture grows momentum to formalize this work in norms, practices and policies. This dynamic conception of change imagines a virtuous cycle in which strategy, equity, approach, evaluation and culture reinforce one another, as elaborated in Measures of Institutional Cultural Change (below).

“Culture” Questions to Consider

Communications

- As you grow a culture that prizes the work of faculty and quality instruction, to what extent are you communicating — and celebrating — these efforts?
- Do internal communications include newsletters, special announcements and other recognitions?
- Are efforts and participating faculty highlighted externally in alumni newsletters, press releases and produced media?
- How can you give quality teaching the same stature as other important initiatives that you regularly promote?

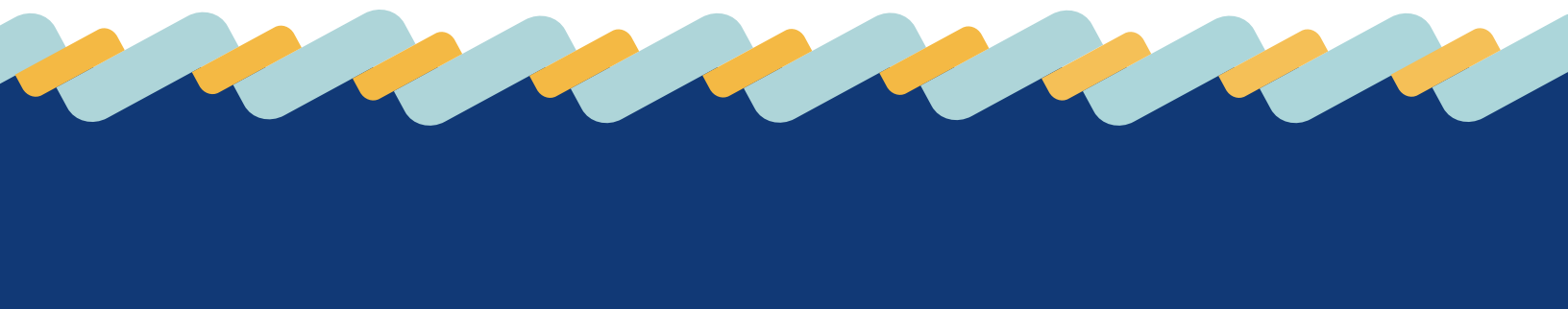
Incentives

- What incentives, both intrinsic and extrinsic, can you bring to bear to deepen faculty interest and motivation?
 - Are financial incentives, such as stipends or increases in base salary, appropriate to institutional norms and in your financial plan?
 - Do you take into account professional considerations, such as changes in title, consideration as part of promotion and tenure (for full-time faculty) or rehire (for part-time faculty)?
 - How does a faculty member’s investment of time and energy into their teaching compare to the incentives you’ve set for time spent on research? Or institutional service? Are they comparable? Do they encourage the professional behaviors you seek?

Expectations

- What are your explicit expectations of faculty vis-à-vis their teaching abilities and professional development?
 - If professional development is voluntary, how will you marshal other cultural forces to grow these efforts to scale?
 - Can you make expectations more explicit, even required, as part of employment offers and contracts?

“What incentives, both intrinsic and extrinsic, can you bring to bear to deepen faculty interest and motivation?”



Self-Assessment Rubric: Culture

The following rubric provides guidance on how to assess the extent to which communications, incentives and other culture-building activities generate faculty and staff enthusiasm — and meaningful participation in — high-quality learning opportunities. How would you rate your institution?

Culture	The institution ... Through its leadership, communications, recognitions, and a variety of formal and informal incentives, engages faculty within an institutional culture that values and prioritizes meaningful engagement in high-quality learning opportunities.	Communications			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Sporadic communications, professional development/training recruitment notices.	One-off communications drafted as needed, to support faculty recruitment for professional development and training opportunities.	Modest communications plan that references leadership support, some faculty recognitions, internal news story or external press release, in support of faculty recruitment, participation and completion.	Fully developed internal and external communications plan to support faculty development and related efforts, including: formal announcement/messages from leadership (president/provost) to institutional community, campus news stories, student newspaper articles, congratulatory emails, social media spotlights, formal recognitions through virtual or in-person events and/or digital/print publications, earned, owned and paid media.
		Incentives			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		<i>Extrinsic only</i> Stipends, job requirement.	<i>Extrinsic</i> Stipends, job requirement.	<i>Extrinsic & Intrinsic</i> Stipends, job requirement. Release time, raise in base pay, professional development credits.	<i>Extrinsic & Intrinsic</i> Carefully designed mix of extrinsic and intrinsic incentives, specific to campus culture and faculty interests, to maximize interest and participation in continuous improvement of teaching practices.

Culture	The institution ... Through its leadership, communications, recognitions, and a variety of formal and informal incentives, engages faculty within an institutional culture that values and prioritizes meaningful engagement in high-quality learning opportunities.	Incentives			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
			<i>Intrinsic</i> Recognitions, special professional designations, related professional opportunities.	<i>Intrinsic</i> Recognitions, special professional designations, related professional opportunities, and additional offerings aligned to faculty interests and cultural expectations.	
		Expectations			
		1 – Nascent	2 – Emerging	3 – Developing	4 – Embedded
		Voluntary and self-directed.	Voluntary and self-directed.	Participation is an expectation of employment.	Participation is a condition of employment in hiring agreement or collectively bargained agreement.
			Professional learning opportunities are encouraged by provost, deans, department chairs and colleagues.	Faculty involvement and active engagement is coordinated as part of department, school or institution-wide student success efforts.	Faculty involvement and active engagement is coordinated as part of department, school or institution-wide student success efforts and formal job responsibilities.
				Part of promotion and tenure considerations.	Meaningful element of promotion and tenure considerations.
					Continuing education required.

Highlighted “Evaluation” Resource

[“Culture Change 101: The Most Important Lessons We’ve Learned.”](#) was published by Sova in its on-going support of institutions committed to scaling student-focused, equity-grounded reform of institutional policies and practices. It includes key tips and tactics for culture building, presented in a lessons learned format. Derived from work with dozens of institutions, and delivered as part of on-going technical assistance to institutions in California and elsewhere, the content is designed for individual reflection, group deliberation, implementation planning, and continuous improvement of culture-building work.

Additional “Culture” Resources

In **“The Effect of Institutional Culture on Change Strategies in Higher Education,”**²⁸ scholars Adrianna Kezar and Peter D. Eckel examine the impact of institutional culture on the change process in colleges and universities. Evidence, gathered through an ethnographic approach and understood through a two-tiered cultural framework, suggests that campuses should conduct audits of their institutional culture before engaging in the change process.

Ron Heifetz and colleagues’ **“The Practice of Adaptive Leadership: Tools and Tactics for Changing Your Organization and the World,”** remains a classic resource, full of hands-on, practical guidance told through stories, tools, diagrams, cases and worksheets to help leaders take colleagues outside their comfort zones to assess and address the toughest challenges.

Achieving the Dream’s [Teaching & Learning Toolkit: A Research-Based Guide to Building a Culture of Teaching & Learning Excellence](#) is grounded in research and informed by the work of its network colleges. The guide is designed to support college teams in building institutional capacity in teaching and learning.

[Teaching in Higher Ed](#) is a weekly podcast hosted by **Bonni Stachowiak** of Vanguard University. It offers faculty a running conversation with some of the world’s leading teaching and learning experts. Related conversations can be found at [Tea for Teaching](#), a podcast hosted by John Kane and Rebecca Mushtare out of the Center for Excellence in Learning and Teaching at the State University of New York at Oswego.

The recorded webinar, [Designing High-Impact Practices for Equity and Impact in New Contexts](#), from AAC&U, discusses strategies for supporting student success and advancing equity in new contexts.

28. Kezar, A., & Eckel, P. D. (2002). The Effect of Institutional Culture on Change Strategies in Higher Education. [The Journal of Higher Education](#).

Policy Typology

Many of the questions posed in each domain discussion and the recommended actions found in the rubrics have policy implications. A summary of these considerations is below. It is informed by the work of Pallas, Neumann and Campbell.²⁹

Policy Recommendations for Campus and System Leaders

- Assess the role of undergraduate teaching in the institutional culture.
- Analyze and realign the formal faculty incentive system.
- Fund and fill faculty positions that emphasize undergraduate teaching.
- Create teaching improvement efforts oriented to the entire campus, academic departments and individual faculty.
- Put someone in charge of undergraduate teaching improvement at the campus level and give that person authority and resources.

Policy Recommendations for Academic Departments

- Prepare graduate students to teach.
- Provide academic departments with management and organizational support for teaching improvement.
- Balance the academic department and individual faculty members as the key units of change.
- Build teaching expertise into the faculty recruitment cycle.
- Invigorate department-level curriculum and teaching committees.

Policy Recommendations for Disciplinary Associations

- Identify, recommend and develop undergraduate teaching resources.
- Develop research agendas to support research of pedagogical practices on student outcomes.
- Develop protocols for peer observation.

29. Pallas, A. M., Neumann, A., & Campbell, C. M. (2017). Policies and Practices to Support Undergraduate Teaching Improvement. *American Academy of Arts & Sciences*, 2.

Measures of Structural Change

Measures of Institutional Culture Change

Measures of institutional culture change are evidence-based metrics that can be used to assess the extent to which an institution is fostering an environment conducive to the highest levels of faculty development, as outlined in the above rubrics. Grounded in implementation climate research, and informed by Sova's Implementation Climate Scan, the measures outlined below are related to the pace and quality of intentional adoption of improved practice on the part of faculty and within a broader context of student-focused innovation.

The Power of Perception

When studying measures of culture change, keep in mind that the numerator is faculty perceptions and the climate measures are the denominators. Climate research is anchored in the notion that perceptions can be studied, measured and influenced. As a result, the focus on perceptions provides a practical foothold for efforts aimed at strengthening a healthy culture for student success innovation.

These measures are especially important in higher education settings because leaders in this sector lack the formal command and control levers available to leaders in other workplaces. Higher education's core commitments to shared governance and academic freedom define faculty culture and fundamentally shape the landscape of possibility for leaders seeking to innovate at scale on behalf of better and more equitable outcomes for today's students.

Visibly Establishing Senior Leadership

- To what extent have senior leaders communicated a compelling vision of student success?
- Does this vision meaningfully connect with the core values of faculty?
- Does leadership consistently and visibly connect discrete efforts to the overarching vision?

Developing a Culture of Evidence and Data

- Does your institution have a culture of data use in which data are used to inspire curiosity (rather than to shame or punish)?
- Does the institution's use of data include specific attention to both the technical aspects (data collection structures) and the human dimensions of change (the demonstration of social and emotional intelligence in the translation of data for faculty and staff)?

Strengthening Mid-Level Leadership Capacity

- Are academic leaders, including deans and department chairs, equipped to translate the vision from senior leaders (president and provost) to speak to the specific interests and passions of faculty?
- Are they competent in both project management and change leadership?

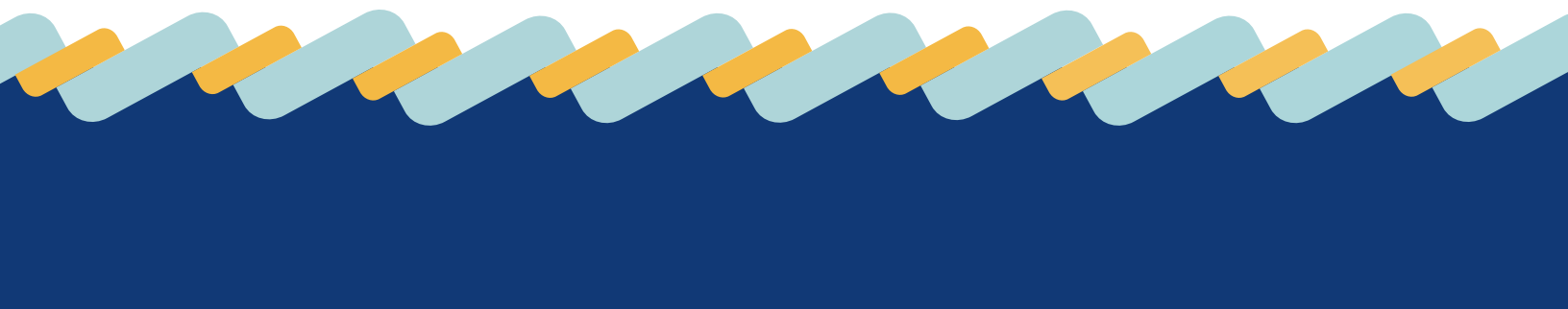
Building Trust and Morale

- To what extent do faculty feel valued and supported?
- Do they feel optimistic when working to improve their practice in the classroom?
- Do they show resilience in the process?
- Do they believe that leaders care about them personally?

Deepening Equity Consciousness

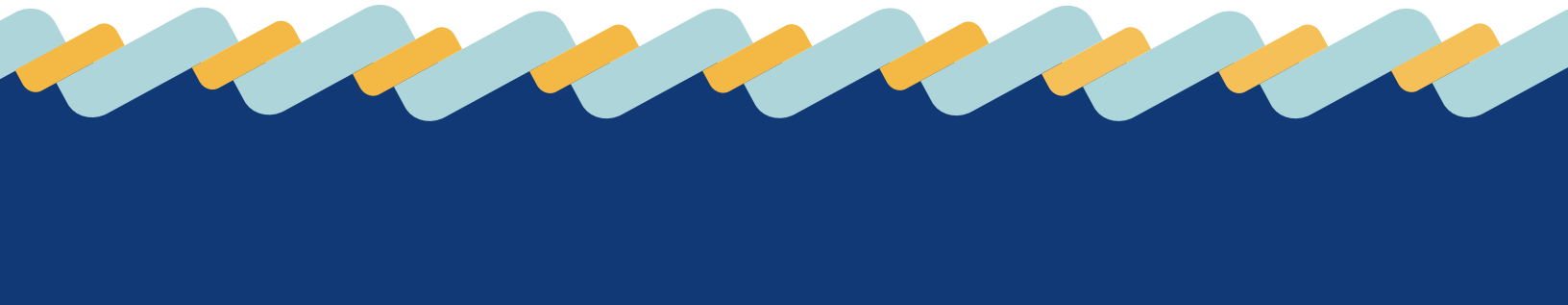
- To what extent do leaders display an understanding of the historical and persistent barriers to student success, as sustained in policies, practices and cultural conditions, along the lines of race, socioeconomic status and gender?
- To what extent do faculty understand how their role and mindset can contribute to exacerbating inequities or, alternatively, leveling the playing field?

“Does your institution have a culture of data use in which data are used to inspire curiosity (rather than to shame or punish)?”



Practice Profiles

The purpose of this section is to provide readers with illustrative and concrete examples that showcase colleges and universities making changes in each of the five research-based domains established in this publication: strategy, equity, approach, evaluation and culture. These short profiles feature higher ed leaders and faculty working at a range of institution types across the country, including a flagship R1 university, state systems of higher education, community colleges, and an urban public university system.



The University of Nevada, Reno

Strategy Showcase

The University of Nevada, Reno (UNR) has a firm commitment to the central role that quality teaching plays in student success. It starts with strategic planning and permeates the institution's seven colleges and 40 academic departments. Faculty hiring policies, professional learning and development for instructors, expectations and formal incentives, as well strategic investments, all reflect this priority.

Research shows that UNR's initiatives to advance quality teaching is driving stronger student outcomes.³⁰ "The data suggest that, yes, there is a positive impact on student success, which is ultimately what this is about," said Kevin Carman,³¹ who served as UNR's executive vice president and provost from 2013 to 2020.

UNR has developed professional learning opportunities closely aligned to its strategic plan. Leadership has embedded quality teaching into the institution's operations intentionally and strategically.

Carman said, "If we're going to do this, let's go all in." Now, all new tenure-track hires and full-time instructional faculty are required by contract to participate and have the opportunity to earn a nationally recognized credential in Effective College Instruction.

"When they sign their contract, there is a sentence that says you will take the "effective teaching" course sometime within their first two years of employment at the university," said Carman. "This is our fourth year of doing this and it's really changed the culture and how we think about teaching."

In addition, graduate students have an opportunity to enroll in the effective teaching course to support their roles as teaching assistants and prepare them for a professoriate increasingly focused on

- **Founded in 1874**
- **Nevada's flagship public university**
- **Carnegie R1 research university**
- **16,800+ undergraduate students enrolled annually**



30. Lawner, E., Snow, M., & Burt, T. (2019). *Grades up: Quality teaching at the heart of student success in San Francisco*. Association of College and University Educators.

31. Carman, K. (2020, November 20). Personal communication [video interview].

effective teaching. The credit-bearing graduate courses have proved so popular that they are now part of the university course catalog.

"It's been a smashing success. We have cohorts of doctoral students who take the course each year. It's a wonderful credential for them to have when they look for a job teaching at a college or university and I think they really see the value," Carman said.

Key Reminders: Strategy

Your Strategic Plan

Incorporate teaching and faculty support. Align to your student success goals. Involve faculty. Measure.

Budget, Resources and ROI

Identify sufficient resources, view as an investment and measure your return.

Accreditation

Review your standards and align professional development to support criteria.

"The data suggest that, yes, there is a positive impact on student success, which is ultimately what this is about."

—DR. KEVIN CARMAN, EXECUTIVE VICE PRESIDENT AND PROVOST (2013 TO 2020)

Community College of Aurora

Equity Showcase

For the Community College of Aurora (CCA), becoming an equity-minded institution involves all aspects of the institution's operations. CCA's five-year Inclusive Excellence (IE) Strategic Plan pioneered a nationally recognized approach that diversified its workforce and embedded equity work throughout the college that is driven by goals to improve student success.³² "A commitment to inclusive excellence and equity is in the DNA of our college," said Tricia Johnson, CCA's vice president for academic affairs from 2017 to 2021.³³

Johnson and her team in the Instructional Intervention and Support (IIS) department were charged with executing on many of CCA's IE teaching and learning goals. In recent years, the department expanded professional development offerings and created new incentives for participation. Johnson said that CCA launched a program that offers faculty "unprecedented levels of professional development and support" to implement inclusive teaching practices.

Math Faculty and Equity-Mindedness

CCA offers several professional development opportunities for faculty, including the Equity in Instruction Leadership Academy, an immersive equity consciousness training program through which faculty cohorts meet regularly to analyze disaggregated equity data for their courses and discuss how mind-set and inherent biases shape student learning experiences.

The academy grew out of a math department initiative led by its chair, James Gray. Using the USC Rossier Center for Urban Education's Equity Scorecard, Gray and his fellow math instructors engaged in peer-to-peer discussions that gradually led them to become "collectively conscious" of unintended biases and how their behaviors, particularly toward Black, Latinx and Indigenous students, "conveyed indifference, lack of caring and even fear." They set equity goals and took steps to change their teaching practices to be more inclusive.³⁴

- **Founded in 1983**
- **The "youngest" of Colorado's 13 community colleges**
- **Hispanic-Serving Institution**
- **10,000 students annually, coming from 60+ countries**



32. Parham, M. (2019). *Five Innovative Community Colleges Take Home Top Honors*. American Association of Community Colleges.

33. Johnson, T. (2020, December 4). Personal communication. (Video interview).

34. Bensimon, E.M. (2016). *The Next Equity Challenge? Inside Higher Education*.

Pairing Practical Approaches with Mindset

As CCA's Inclusive Excellence Strategic Planning took shape in 2017, CCA leadership sought to invest in professional development opportunities that prepared faculty to immediately implement inclusive teaching practices. In partnership with ACUE, CCA launched a program for faculty to address a comprehensive body of evidence-based inclusive teaching practices.

"What's been so beautiful is faculty members' willingness to be vulnerable and be comfortable enough to really listen, push and grow," said Johnson. "I have had individuals who have been teaching for 20 years say, 'It reinvigorated my teaching. I found this passion for it again that I hadn't felt in a while.'"

When the Covid-19 pandemic led to budget cuts, funding for professional development remained. In an updated report on CCA's IE Strategic Plan,³⁵ the IIS department made the case for a sustainable infrastructure for faculty development, citing high participation and feedback received. "We knew how critically important, especially in a time like this, that professional development would be for our faculty or instructors," Johnson said.

35. [E Strategic Plan \(2020\). Inclusive Excellence Strategic Plan: Jan 2020 Update. Community College of Aurora Inclusive Excellence Council.](#)

"A commitment to inclusive excellence and equity is in the DNA of our college."

—DR. TRICIA JOHNSON, VICE PRESIDENT FOR ACADEMIC AFFAIRS (2017 TO 2021)



University of Colorado Denver

Equity Spotlight

In 2018, academic leaders at the University of Colorado Denver (CU Denver) were looking for ways to engage more faculty who were teaching the university's influential courses, characterized by having large enrollment of more than 75 students and historically producing high "DFW" rates — meaning 20 percent of students receive a final grade of D, F or withdraw from the course.

"If they are not successful in those courses, they're more likely to drop out," said Margaret Wood, CU Denver's associate vice chancellor of academic achievement. With limited resources, Wood sought to maximize impact. To scale professional learning opportunities, she partnered with ACUE and established UC Denver's inaugural Center for Excellence in Teaching and Learning.³⁶

To accommodate faculty members' demanding schedules, Wood and the Center's director, Lindsey Hamilton, offered a series of shorter microcredential courses. Within days, CU Denver filled every open spot. "In terms of scaling, shorter microcredential courses are definitely the right approach for us to get more faculty involved," Hamilton said.

- **Established in 1912; operating independently since 1973**
- **Serves more than 15,000 undergraduate and postgraduate students**
- **49% of students are first-generation**
- **1,173 faculty members**



36. Hamilton, L., & Wood, M. (2020). Personal communication. [Video interview].

Metropolitan State University Denver

Equity Spotlight

At Metropolitan State University of Denver (MSU Denver), a first-of-its-kind collaboration between two university offices led to the launch of an inclusive teaching initiative with a focus on preparing faculty in effective online teaching practices.

When the university's bustling downtown campus closed due to the COVID-19 pandemic, MSU Denver moved 90 percent of its classes online. At the same time, nationwide protests over systemic racism and injustice pushed higher education to reckon with its role in advancing equity.

In response, the Office of Diversity and Inclusion partnered with the Center for Teaching, Learning and Design — two offices that previously did not work closely together — to apply for federal funding through the Coronavirus Aid, Relief, and Economic Security (CARES) Act.

The application was successful, and the university focused the funds on developing a professional learning initiative for faculty that addresses anti-racist pedagogies, inclusive teaching practices, and equity-consciousness.³⁷

Equity and inclusive excellence are core values at MSU Denver. Recently designated a Hispanic-Serving Institution, MSU Denver serves a student population in which the average age of undergraduates is 25 years old, 50 percent are first-generation college students, and 80 percent work full- or part-time.

"We have a pandemic that is forcing instructors online, and we have a national crisis attending to inherent racism in our country," said Jeff Loats,³⁸ director of MSU Denver's Center for Teaching, Learning and Design. "Let's meet these two moments."

- Serves 18,500 undergraduate and graduate students
- 48.4% of undergraduates are students of color
- Hispanic-serving institution
- Avg. age of undergraduate students: 25 years



37. Stachowiak, B. (Host). (2021, January 7) Meeting the Moment Through Inclusive Teaching (No. 343) [Audio podcast episode]. In *Teaching in Higher Ed. Innovate Learning*.

38. Loats, J. (2020, November 20). Personal communication. [Video interview].

Key Reminders: Equity



Leadership

Prioritize equity in strategic plans.

Language

Be intentional about language used and in having inclusive conversations.

Mindset

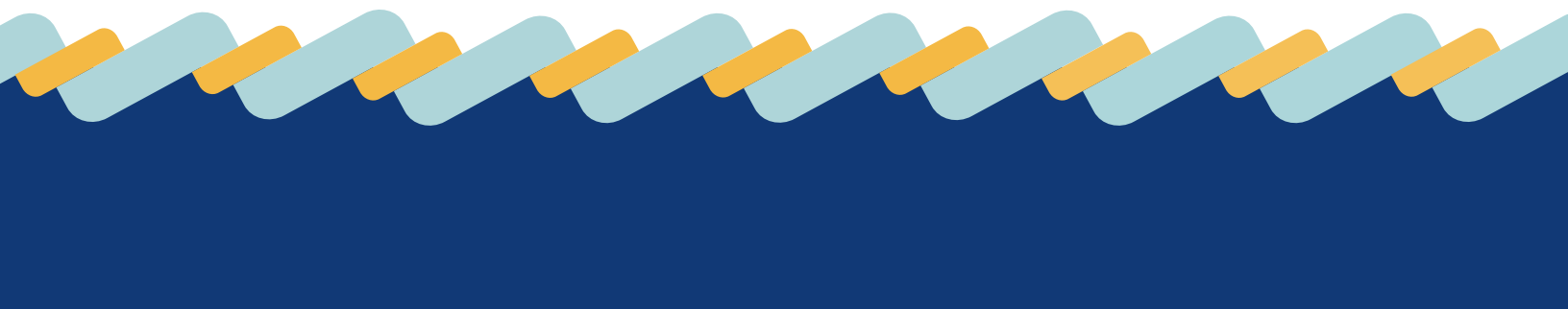
Does your campus culture support a growth mindset?

Content

Explicitly address equity issues in your faculty development.

Feedback and Data

Disaggregate and act on student data. Gather feedback on campus climate.



California State University

Evaluation Showcase

Increasingly, faculty development is seen as a priority for sustaining strategies that increase student retention, completion and graduation. “The efforts are being led by faculty, because they are the ones who best understand that [remediation] is not good for students,” said Alison Wrynn,³⁹ the California State University’s (CSU) associate vice chancellor for academic programs, innovations and faculty development.

Under Wrynn and Director Emily Magruder, the CSU Institute for Teaching and Learning (ITL) has seen its mission and scale expand dramatically in recent years. As part of the CSU system’s Graduation 2025 Initiative, the CSU Institute played a central role in helping campuses redesign entry-level mathematics and writing courses to eliminate pre-requisite remediation.

The ITL works closely with the CSU Faculty Development Council, as well as cross-campus teams, to link reform of remedial education to systemwide efforts to increase student success with equitable and engaged teaching and learning. Campus teams consisted of institutional researchers, directors of academic support centers, advisors, chairs of departments offering the courses, and directors of faculty development or teaching and learning centers. These teams supported faculty by organizing in-person summits, producing a webcast series, and cultivating digitally-supported professional learning communities.⁴⁰

- **Founded in 1857**
- **23 campuses, serving 485,000 students**
- **Nearly 27,000 instructional faculty**
- **Nation’s largest 4-year public university system**



A Crucial Lever

On one CSU campus, California State University, Los Angeles (Cal State LA), much of that work is centered in its Center for Effective Teaching and Learning (CETL), recognized as a crucial lever in the University’s plan to achieve its ambitious student success.⁴¹

39. Wrynn, A. (2021, January 25). Personal communication. [Video interview].

40. Magruder, E. (2021, February 3). Personal communication. [Video interview].

41. [Brown, J., & Kurzweil, M. \(2018\). Instructional Quality, Student Outcomes, and Institutional Finances.](#)

To support implementation in response to CSU Executive Order 1110, Catherine Haras, senior director of the CETL, with the support of Michelle Hawley, Cal State LA's associate vice president and dean of undergraduate studies, designed a hybrid professional development program that forced faculty to "blow up all of their assumptions" about their courses, from structure to materials.⁴²

Building to Scale

Hawley and Haras also needed a scalable mechanism to support and train nearly 60 math faculty in their program. "With ACUE, we were able to run programs systematically for these larger multi-section courses and involve faculty in redesigning a common course at the same time," said Hawley.⁴³ "That's when we began to see impact at scale."

Cal State LA is evaluating the impact of its faculty development work in several ways:

- Through mid-course surveys, students note that their professors are providing regular feedback, assigning more meaningful work, and keeping class well organized and well-paced, among other evidence-based teaching practices.
- An analysis of course completion data found that the percentage of first-year students who completed their math requirement increased by 25 percent every year between 2016 and 2018.
- As a measure of economic equity, Cal State LA found that the overall institutional gap between Pell-eligible and non-Pell-eligible students was eliminated from a high of six percent.⁴⁴

42. Haras, C. (2021, February 5). Personal communication. [Video interview].; Hawley, M. (2021, February 9). Personal communication. [Phone interview].

43. Hawley, M. (2021, February 9). Personal communication. [Phone interview].

44. [Association of College and University Educators. \(2019b\). Beyond Co-Requisites: Math Success at Cal State LA.](#)

"The efforts are being led by faculty, because they are the ones who best understand that [remediation] is not good for students."

—DR. ALISON WRYNN, ASSOCIATE VICE CHANCELLOR FOR ACADEMIC PROGRAMS, INNOVATIONS AND FACULTY DEVELOPMENT



California Community Colleges

Evaluation Spotlight

Strong Workforce and Faculty Development

In 2017, Grant Goold, a full-time faculty member at American River College, was tapped by the California Community Colleges' Chancellor's Office to help the system implement the Strong Workforce Program — a new annual recurring investment of \$200 million to spur career education in California's community colleges. The program is charged with creating one million more middle-skilled workers in California.

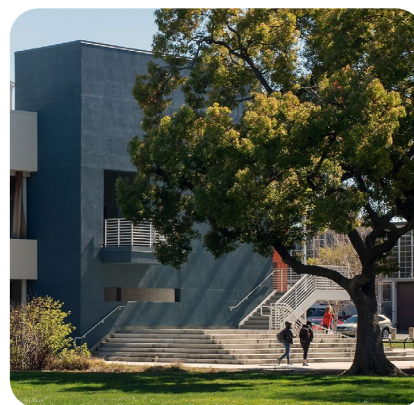
Goold saw high-quality professional development for the CCC System's Career and Technical Education (CTE) faculty as a crucial piece of the implementation. "Once I started to really look at the quality of instruction, I found that many of our faculty were not exposed to professional-level, high quality development in pedagogy," said Goold.⁴⁵

After two years, nearly [500 faculty across 28 community colleges](#) became ACUE credentialed in Effective College Instruction. At one campus, the College of the Desert, newly hired faculty are required to earn the credential as part of their first-year onboarding programs.⁴⁶ A regional consortia in Northern California, made up of rural community colleges, are combining their resources to design cohorts across multiple institutions.

The Proof is in the Pudding

Most importantly, there was hard data that showed demonstrable impact for students. At City College of San Francisco, for example, there was a significant increase in the rate of students receiving As and a significant decrease in the rate of students receiving Fs in sections taught by ACUE-credentialed faculty, relative to comparison data.⁴⁷ "The proof is in the pudding," Goold said. "We had incredible outcomes. We had a shift in mindset for many of our faculty."

- The largest system of higher education in the nation
- Serves 2.1 million students across 116 colleges
- Helps nearly 80,000 students annually transfer into the state's public 4-year institutions
- The largest provider of workforce training in the nation



45. Goold, G. (2021, January 21). Personal communication. [Video interview].

46. Greene, D. (2021, January 26). Personal communication. [Video interview].

47. Lawner, E., Snow, M., & Burt, T. (2019). [Grades up: Quality teaching at the heart of student success in San Francisco. Association of College and University Educators.](#)

Key Reminders: Evaluation

Faculty Data

Measure learning and implementation of practices.

Student Data

Measure engagement and learning. Disaggregate data.

Institutional Data

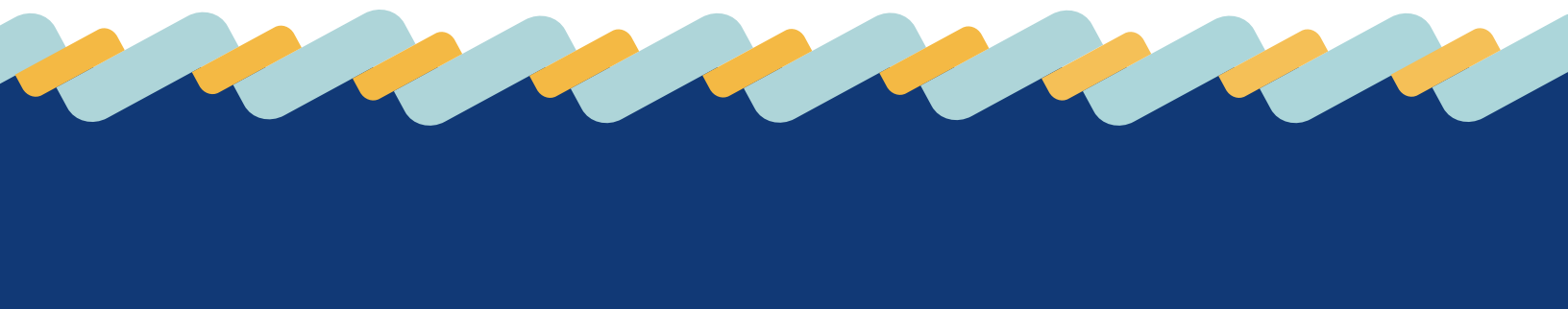
Measure impact on completion, retention, financial and admissions figures.

Collection Methods and Analyses

Do you have the infrastructure and resources needed to properly evaluate efforts?

"For students to succeed, our faculty have to continually innovate every single day. You really have to change the way you're teaching to help them succeed."

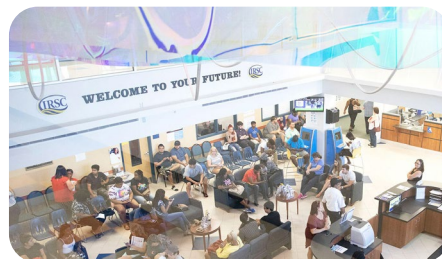
— DR. HEATHER BELMONT, PROVOST AND VICE PRESIDENT OF ACADEMIC AFFAIRS



Indian River State College

Approach Showcase

- **Founded in 1963**
- **Serves 30,000 students annually**
- **One of 28 Florida College System institutions**
- **2019 winner: Aspen Prize for Community College Excellence**



Student-centered innovation is a pursuit shared across the Florida College System (FCS), an approach that has enabled them to move quickly and adapt to an ever-changing landscape. Ensuring faculty are partners in this work, they say, is crucial.

“For students to succeed, our faculty have to continually innovate every single day,” said Heather Belmont, vice president of academic affairs at Indian River State College (IRSC), the 2019 Aspen Prize for Community College Excellence winner. “You really have to change the way you’re teaching to help them succeed.”

At IRSC, that starts with a comprehensive approach to professional development. As part of their onboarding process, a collaboration between IRSC’s Employee Development Program (EDP) and Institute for Academic Excellence (IAE), new hires are engaged in the college’s culture of teaching and learning. Over the course of their first year, new faculty are paired with veteran faculty mentors and have opportunities to attend a series of meetings focused on supporting their own growth and success at IRSC, join open discussions, and learn about professional development offerings and trainings.

For Jodi Robson, director of the IAE, one of the most effective ways to build culture has been through Professional Learning Communities (PLCs). These PLCs — eight in total — cover a variety of topics and interests. They review literature for evidence-based research, as well as develop support systems for faculty. Throughout the year, the PLCs share their findings with faculty through multiple approaches.⁴⁸

Robson has leveraged her passion for building communities through IRSC’s partnership with the Association of College and University Educators (ACUE). As IRSC has grown its partnership with ACUE to train and credential faculty in evidence-based teaching practices, she was inspired to launch a faculty learning community that extended to other Florida community colleges — and even beyond.

Robson, along with faculty developers across four other ACUE Florida colleges, launched The Coffee Shop, a virtual professional development series through which participants share resources and showcase practical teaching techniques for continuous learning.⁴⁹

“It’s so affirming when participants share their enthusiasm about incorporating what they learned into their own classrooms,” Robson⁵⁰ said. “I am excited to see how this program continues to evolve and expand to serve faculty across the country.”

48. Belmont, H., and Robson, J. (2021, March 8). Personal communication [video interview].

49. [Tea for Teaching, episode #196](#)

50. Belmont, H., and Robson, J. (2021, March 8). Personal communication [video interview].

Broward College

Approach Spotlight

- **Established in 1959; Designated a state college offering 4-year bachelor's degrees in 2008**
- **Serves more than 68,000 students annually and employs a faculty and staff of more than 2,000**



Removing barriers to post-secondary completion is a top priority at Broward College. The Fort Lauderdale-based college, which serves more than 50,000 students, is a six-time Aspen Prize for Community College Excellence finalist.

A cornerstone of Broward's strategic student success is the Center for Teaching Excellence and Learning (CTEL). When Broward needed to respond rapidly to Florida's SB 1720 developmental education reforms, the CTEL helped faculty implement and scale a successful pilot using adaptive assessment software to enhance developmental math courses.⁵¹

With the dramatic shift to online learning, teaching and working, Associate Vice President and CTEL Director Julia Philyaw says "the CTEL team has been in overdrive" to ensure that the Broward community has access to, and comfort with, the new technology platforms, communication systems and productivity tools needed to remain effective and connected. Between March 2020 and March 2021, CTEL offered a total of 970 offerings.⁵²

Broward's most comprehensive program has been an enterprising partnership with ACUE, which began with a five-year commitment to train and credential 500 faculty. After just one year, nearly all finalists for Broward's Professor of the Year awards had earned ACUE's Certificate in Effective College Instruction, co-endorsed by the American Council on Education.⁵³

The strongest indicator that this approach to faculty development was positively impacting student success came in 2020 with the publication of a research brief and technical report assessing the 2017-18 and 2018-19 academic years. The report showed that course completion gaps were closed for Black students, and course-passing gaps were closed for Pell-eligible students taught by ACUE-credentialed faculty at Broward.⁵⁴

"The program has already shown tremendous success in achieving equity among students," Broward College President Gregory Adam Haile wrote in a December 2020 President's Update newsletter to the campus community.⁵⁵

51. [Baker, P. \(2020, November\). How Partnering with the Center for Teaching Excellence and Learning Helped Broward College Launch an Adaptive Pilot. Every Learner Everywhere.](#)

52. Philyaw, J. (2021, March 12). Personal communication [email interview].

53. [Broward College. \(2019\). Broward College Offers Continued Education Training for Faculty and Staff. Retrieved 2021, March 17.](#)

54. [Lawner, E., & Snow, M. \(2020\). Advancing academic equity at Broward College: Improved course completion and passing. Particularly among Pell-eligible and Black students. Association of College and University Educators.](#)

55. [Haile, G.A. \(2020, December\). President's Update. Broward College. Retrieved 2021, March 17.](#)

Tallahassee Community College

Approach Spotlight

Tallahassee Community College (TCC) is laying a foundation to incorporate comprehensive faculty learning opportunities into its recipe for student success.

“Ensuring that faculty have ownership in their own professional development is critical to the success of teaching and student learning,” says Calandra Stringer, TCC’s provost and vice president of academic affairs.

Aligned with the launch of a new four-year strategic plan in August 2019, academic leaders convened faculty and staff for a two-day workshop that focused on advancing a student-centered environment to promote more equitable learning conditions and outcomes. Stringer says that the event included an exercise in which participants were presented with data revealing a nearly 30 percent equity gap in student success rates between Black and white students.

A focus on removing barriers to student success paved the way for the development of a Teaching and Learning Framework in partnership with Achieving the Dream (ATD). ATD surveyed and interviewed faculty to identify key areas where they believed professional development could be improved and strengthened. This information was used to identify topics and strategies to build professional faculty engagement, including a partnership with the Association of College and University Educators (ACUE).

Through the partnership, TCC offers up to three micro-credentialing tracks per semester focused on:

- Creating an inclusive and supportive learning environment.
- Promoting active learning online.
- Inspiring inquiry and lifelong learners.
- Designing student-centered courses.

- **Founded in 1969**
- **Serves more than 24,000 students annually**
- **79% of TCC graduates transfer to a 4-year institution**



In a matter of months, TCC completed five micro-credential courses to approximately 140 faculty. During the 2020-21 academic term, ACUE-credentialed faculty were invited to participate in an advanced professional development experience through TCC's Center for Professional Enrichment, a community of practice that meets regularly to discuss lessons and dive deeper into specific teaching strategies.

The work has paid dividends. In 2021, TCC became the latest Florida College System member named a top 10 Aspen Prize for Community College Excellence finalist, the nation's signature recognition of high achievement and performance among America's community colleges.

Key Reminders: Approach

Comprehensiveness

Faculty development addresses a comprehensive set of core competencies and practices.

Content

Are offerings evidence-based? Guidance content should answer the question: "How do I do it?"

Frequency

Professional learning opportunities are offered year-round, on a weekly or monthly basis, and consistently throughout the year.

Delivery

An evidence-based learning design that engages faculty as learners, encourages collaboration, promotes autonomy and requires application.

Scale

What percentage of faculty participate in professional learning offerings? Do all types of faculty and staff have access to opportunities?

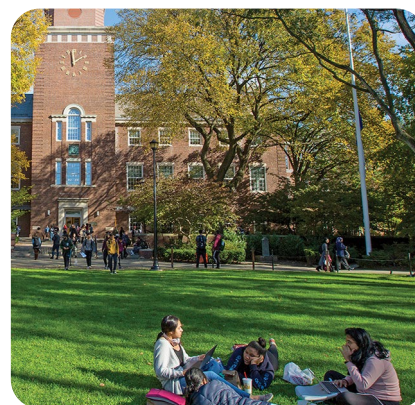
The City University of New York

Culture Showcase

When Félix V. Matos Rodríguez was named chancellor of the City University of New York (CUNY) in 2019, he had a clear vision. To improve student success, CUNY needed to improve the quality of instruction. He also recognized a greater need to grow a culture that prizes and recognizes instructional excellence. “One part that was missing was a commitment to better teaching.”⁵⁶

He communicated his vision widely and celebrated CUNY’s unprecedented response to the COVID-19 pandemic, transitioning nearly 50,000 courses online and equipping more than 30,000 students with computers and hotspots. The pandemic, Matos Rodríguez⁵⁷ wrote, underscored why effective teaching was more important than ever, meaning: “How teachers teach, how students learn, and what methods and approaches have proven most effective at elevating student achievement and outcomes.” Improving instruction “is one of our key priorities at CUNY — a way to both boost student success and support the invaluable resource that is our faculty.”

- **Founded in 1847**
- **25 senior and community colleges**
- **Serves 275,000 students annually**
- **Nation’s largest urban public university system**



Improving Pedagogy at Scale

Driving the instructional vision is CUNY’s Innovative Teaching Academy, which has provided training to over 4,100 faculty since its inception in early 2020. “We hope to improve pedagogy at scale across over 7,500 full-time faculty and over 12,000 part-time faculty,” said Annemarie Nichols-Grinenko, associate dean for faculty affairs at CUNY.⁵⁸

Nichols-Grinenko is a member of CUNY’s Innovative Pedagogy Working Group, which is charged with leading the Innovative Teaching Academy’s offerings and culture-building activities. CUNY is growing culture through participation in student success initiatives, including grants from the Carnegie Corporation of New York. In addition, CUNY is one of four university systems participating in a national Scaling Instructional Excellence for Student Success initiative through the National Association of System Heads (NASH) to train hundreds of faculty.⁵⁹

56. [Matos Rodríguez, F. \(2020, October 8\). Conversation on Student Success. \[Webinar\] American Council on Education.](#)

57. [Matos Rodríguez, F. \(2020\). A New Focus on Pedagogy – For the Pandemic and Beyond. \[Editorial\]. Brooklyn Paper.](#)

58. [Association of College and University Educators. \(2021\). Coffee, Community, and Curriculum.](#)

59. NASH, 2020

Faculty as Our Most Important Asset

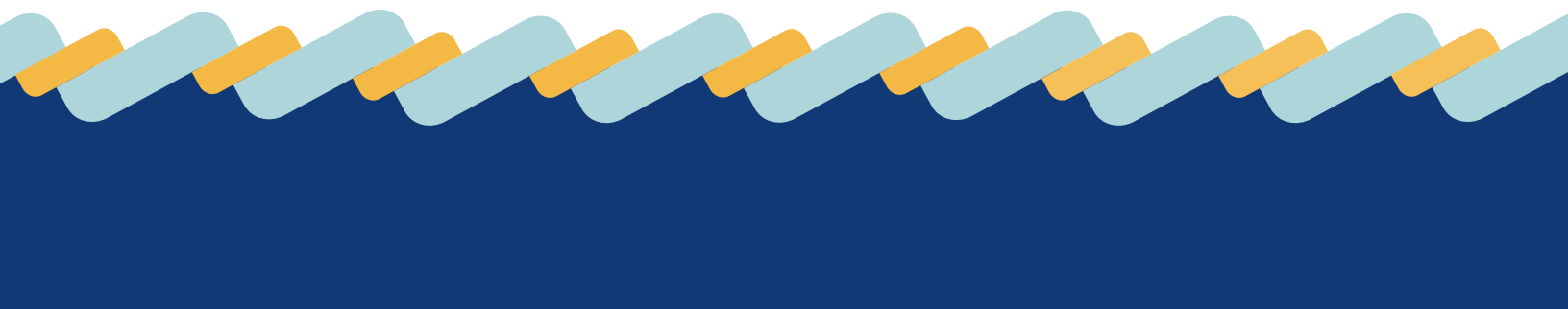
To improve pedagogy at scale, CUNY's academic leaders recognize that providing faculty with training is not enough. To take root and grow, teaching must be embraced by the faculty and leadership of CUNY's colleges, and assessed and rewarded at the college level.

The Teaching Academy plans to deepen its efforts to celebrate faculty who invest in their instructional training, starting with a university-wide event to recognize credentialed faculty. It is also working with the Office of Academic Affairs and the leadership of the University Faculty Senate to develop a plan to explore ways of better recognizing excellence in teaching and the scholarship of teaching and learning in CUNY's tenure and promotion processes.

"If we invest in our most important asset, which is our faculty, we're going to get faculty that are more motivated, happier to do the work that they do on the teaching side, and much better outcomes for our students," said Matos Rodríguez.

*"If we invest in our most important asset,
which is our faculty, we're going to get
faculty that are more motivated...and much
better outcomes for our students."*

FÉLIX V. MATOS RODRÍGUEZ, CHANCELLOR



State University of New York

Culture Spotlight

Faculty development is a driving catalyst for [developmental education reform](#) in the State University of New York (SUNY), the largest comprehensive system of universities, colleges and community colleges in the United States.

Through a grant from Strong Start to Finish, all 30 of SUNY's community colleges and eight four-year colleges are implementing at least one developmental education reform.

Their strategies are to:

- Accelerate and scale up SUNY's Guided Pathways reforms.
- Scale math pathways and targeted corequisite interventions across the SUNY system.
- Expand corequisite English Accelerated Learning Program (ALP).

In-depth faculty training and professional development are major levers being used to realize these goals, according to Johanna Duncan-Poitier, the senior vice chancellor for community colleges and the education pipeline for SUNY. Duncan-Poitier emphasized that there was a strong commitment to faculty development and engagement as part of the implementation. That includes more than 60 workshops with greater than 3,000 attendees.

"We are investing in the people who are investing in student success," Duncan-Poitier said.⁶⁰

- **Established in 1948**
- **Nation's largest comprehensive public university system**
- **Comprised of 64 campuses, including research universities, liberal arts colleges, technical colleges and community colleges**
- **Serves nearly 600,000 students annually**



Key Reminders: Culture

Communications

Celebrate great teaching through internal communications and special announcements.

Incentives

What incentives, intrinsic and extrinsic, can be utilized to reward quality instruction?

Expectations

Establish clear expectations for faculty around instructional development; consider employment offers and contracts to make expectations explicit.

60. Strong Start to Finish. (2021, March). Leadership Network Convening [Conference].

References

American Academy of Arts & Sciences. (2017). *The Future of Undergraduate Education, The Future of America*. Commission on the Future of Undergraduate Education.

Association of American Colleges & Universities. (2020). *Designing High-Impact Practices for Equity and Impact in New Contexts*. [Recorded webinar].

American Council on Education. (n.d.). Contributors to ACE's Teaching and Learning Scholarship. [Blog post].

Association of College and University Educators. (2018). More As and fewer Fs across 150 classes, enrolling 4,582 CCSF students, taught by ACUE-credentialed faculty.

Association of College and University Educators. (2019a). Completion gap closed for Black/African American students at Texas Woman's University: Improved course completion for students taught by ACUE-credentialed faculty.

Association of College and University Educators. (2019b). Beyond Co-Requisites: Math Success at Cal State LA.

Association of College and University Educators. (2020). *Inclusive and Equitable Teaching, ACUE Curriculum Crosswalk*.

Association of College and University Educators. (2021). *Coffee, Community, and Curriculum*.

Bailey, T. R., Jaggars, S. S., & Jenkins, D. (2015). *Redesigning America's Community Colleges: A Clearer Path to Student Success*. Harvard University Press.

Baker, P. (2020, November). How Partnering with the Center for Teaching Excellence and Learning Helped Broward College Launch an Adaptive Pilot. *Every Learner Everywhere*.

Barnett, E.A., Bergman, P., Kopko, E., Reddy, V., Belfield, C.R., and Roy, S. (2018). *Multiple Measures Placement Using Data Analytics: An Implementation and Early Impacts Report*. Center for the Analysis of Postsecondary Readiness.

Beach, A. L., Sorcinelli, M. D., Austin, A. E., & Rivard, J. K. (2016). *Faculty Development in the Age of Evidence: Current Practices, Future Imperatives*. Stylus Publishing.

Belmont H., and Robson, J. (2021, March 8). Personal communication. [Video interview].

Bensimon, E.M. (2016). *The Next Equity Challenge? Inside Higher Education*.

- Bensimon, E. M., & Malcom, L. E. (Eds.) (2012). *Confronting equity issues on campus: Implementing the equity scorecard in theory and practice*. Sterling: Stylus Publishing.
- Broward College. (2019). Broward College Offers Continued Education Training for Faculty and Staff. Retrieved March 17, 2021, from <https://news.broward.edu/2019/05/ce-training-2019.html>
- Brown, J. & Kurzweil, M. (2018). *Instructional Quality, Student Outcomes, and Institutional Finances*.
- Canning, E. A., Muenks, K., Green, D. J., & Murphy, M. C. (2019) STEM faculty who believe ability is fixed have larger racial achievement gaps and inspire less student motivation in their classes. *Sciences Advances*. American Association for the Advancement of Sciences.
- Carman, K. (2020, November 20). Personal communication. [Video interview].
- Center for Community College Student Engagement. *Ensure Students Are Learning Equity Tools*. [n.d.]
- City University of New York. (2021). *Scaling instructional excellence for student success: CUNY progress report #1*.
- Education Advisory Board. (2015). *Defining the faculty role in student success: Building ownership for student progression among individual faculty and distributed academic units*.
- Eddy, S. L. & Hogan, K. A., (2017). Getting Under the Hood: How and for Whom Does Increasing Course Structure Work? *CBE — Life Sciences Education*, 13(3).
- Eynon, B., & Iuzzini, J. (2020). *ATD teaching and learning toolkit: A research-based guide to building a culture of teaching and learning excellence*. Achieving the Dream.
- Florida Department of Education. (2020, July 24). Florida College System Institutions Stand Out as Our Nation's Best. Retrieved March 17, 2021, from <http://www.fldoe.org/newsroom/blogs/florida-college-system-institutions-stand-out-as-our-nations-best.shtml>
- Gallup. (2014). *Great jobs, great lives. A study of more than 30,000 college graduates across the U.S. Gallup-Purdue Index report*.
- Gallup. (2015). *Great jobs, great lives. The relationship between student debt, experiences and perceptions of college worth. Gallup-Purdue index 2015 report*.
- Goold, G. (2021, January 21). Personal communication. [Video interview].
- Greene, D. (2021, January 26). Personal communication. [Video interview].
- Guskey, T. R. (2000). *Evaluating professional development*. Corwin Press.
- Gyurko, J., & Snow, M. (2020). Our "Directive": Quality Teaching and Learning. *Change: The Magazine of Higher Learning*, 52:5, 6-16.
- Gyurko, J., MacCormack, P., Bless, M., & Jodl, J. (2016). *Why Colleges and Universities Need to Invest in Quality Teaching More than Ever*. Association of College and University Educators.

- Haile, G.A. (2020, December). President's Update. Broward College. Retrieved March 17, 2021, from https://www.broward.edu/about/leadership/_docs/monthly-updates/decupdatefinal2020.pdf
- Haras, C., Taylor, S. C., Sorcinelli, M.D., & von Hoene, L. (2017). Institutional Commitment to Teaching Excellence: Assessing the Impacts and Outcomes of Faculty Development. American Council on Education.
- Haras, C. (2018). Improving Teaching Through Reflection. Association of College and University Educators.
- Haras, C. (2021, February 5). Personal communication. [Video interview].
- Hamilton, L. & Wood, M. (2020). Personal communication. [Video interview].
- Hawley, M. (2021, February 9). Personal communication. [Phone interview].
- Heifetz, R. A., Linsky, M., & Grashow, A. (2009). The Practice of Adaptive Leadership: Tools and Tactics for Changing Your Organization and the World. Harvard Business Press.
- Hines, S. R. (2011). How to evaluate the impact of faculty development programs [White paper]. Magna.
- Hu, S. (2019, April 9). A Florida Developmental Education Reform is Leading to Greater Success and Equity. Center for the Analysis of Postsecondary Readiness.
- IE Strategic Plan (2020). Inclusive Excellence Strategic Plan: Jan 2020 Update. Community College of Aurora Inclusive Excellence Council.
- Jankowski, N. (2017). Unpacking Relationships: Instruction and Student Outcomes. American Council on Education.
- Johnson, T. (2020, December 4). Personal communication. [Video interview].
- Keadle, V. (2020). Deficit Language in Course Descriptions. Strong Start to Finish.
- Kezar, A., & Eckel, P. D. (2002). The Effect of Institutional Culture on Change Strategies in Higher Education. The Journal of Higher Education.
- Kirkpatrick, D. L., & Kirkpatrick, J. D. (2007). Implementing the four levels: A practical guide for effective evaluation of training programs. Berrett-Koehler.
- Lawner, E., & Snow, M. (2019a). Stronger instruction sustained: Higher student evaluations and grades at the University of Nevada, Reno. Association of College and University Educators.
- Lawner, E., Snow, M., & Burt, T. (2019). Grades up: Quality teaching at the heart of student success in San Francisco. Association of College and University Educators.
- Lawner, E., & Snow, M. (2020). Advancing academic equity at Broward College: Improved course completion and passing, particularly among Pell-eligible and Black students. Association of College and University Educators.

- Loats, J. (2020, November 20). Personal communication. [Video interview].
- MacCormack, P., Snow, M., Gyurko, J., & Sekel, J. C. (2018). Connecting the dots: A proposed accountability method for evaluating the efficacy of faculty development and its impact on student outcomes. Association of College and University Educators.
- MacCormack, P., Reilly, K. P., & Brailow, D. G. (2019). Creating value. *Change: The Magazine of Higher Learning*, 51(4), 40-47.
- Magruder, E. (2021, February 3). Personal communication. [Video interview].
- Matos Rodríguez, F. (2020, October 8). Conversation on Student Success. [Webinar] American Council on Education.
- Matos Rodríguez, F. (2020). A New Focus on Pedagogy – For the Pandemic and Beyond. [Editorial]. Brooklyn Paper. Retrieved from <https://www.brooklynpaper.com/op-ed-a-new-focus-on-pedagogy-for-the-pandemic-and-beyond/>
- McKay, H., Michael, S., & Khudododuv, K. (2016). The Transformation of Colorado's Developmental Education Program. Rutgers Education and Employment Research Center.
- Mellow, G. O., Woolis, D. D., Klages-Bombich, M., & Restler, S. (2015). Taking College Teaching Seriously – Pedagogy Matters!: Fostering Student Success Through Faculty-Centered Practice Improvement. Stylus Publishing.
- Nettles, M. T. (2017). Challenges and opportunities in achieving the national postsecondary degree attainment goals. ETS Research Report Series, 1–72.
- Nevada System of Higher Education (2019). Traditional Remediation Does Not Work. Nevada Board of Regents.
- Nilson, L. B. (2016). Teaching at its Best: A Research-Based Resource for College Instructors. John Wiley and Sons.
- Pallas, A. M., Neumann, A., & Campbell, C. M. (2017). Policies and Practices to Support Undergraduate Teaching Improvement. *American Academy of Arts & Sciences*, 2.
- Parham, M. (2019). Five Innovative Community Colleges Take Home Top Honors. American Association of Community Colleges.
- Park-Gaghan, T. J., Mokher, C. G., Spencer, H., Hu, X., & Hu, S. (2020). What Happened When Developmental Education Became Optional in the Sunshine State? The Impact of Florida's Developmental Education Reform on Introductory College-level Course Completion. *Educational Researcher*.
- Philyaw, J. (2021, March 12). Personal communication. [Email interview].
- The RP Group. (2019). Access, Enrollment, and Success in Transfer-Level English and Math in the California Community College System.

Reber, S., & Sinclair, C. (2020). *Opportunity Engines: Middle-Class Mobility in Higher Education*. Brookings Institution.

Rossman, D., Alamuddin, R., and Kurzweil, M. (2019). *Estimating the Return on Investment (ROI) for Instructional Improvement Efforts*. American Council on Education (ACE).

Scott, D., Dizon, J.P.M., & Kezar, A. (2019). *State of the Faculty: 2018 Report*. University of Southern California, Pullias Center for Higher Education.

Sekel, J. C. (2018, July). *The essentials of college instruction: A comprehensive bibliography*. Association of College and University Educators.

Sova. (2021). *Culture Change 101: The Most Important Lessons We've Learned*. [Online presentation].

Stachowiak, B. (Host). (2021, January 7). *Meeting the Moment Through Inclusive Teaching* (No. 343). [Audio podcast episode]. In *Teaching in Higher Ed*. Innovate Learning.

Strong Start to Finish. (2021, March). *Leadership Network Convening*. [Conference].

Thompson, W., & Rabinowitz, V. (2018). *President Speaks: It's Time to Rethink Remedial Education*. [Editorial]. Retrieved from <https://www.highereddive.com/news/president-speaks-its-time-to-rethink-remedial-education/543299/>

Vandal, B. (2014). *Betting on U of Nevada-Reno's Gateway Math Strategy*. Complete College America. [Blog post].

Watanabe, T. (2019). *Cal State remedial education reforms help thousands more students pass college-level math classes*. Los Angeles Times.

Wrynn, A. (2021, January 25). *Personal communication*. [Video interview].

Zimmerman, J. (2020). *The Amateur Hour, A History of College Teaching in America*. Johns Hopkins University Press.

About This Toolkit

This toolkit provides institutions, higher education systems and state agencies with a framework to fully engage faculty in the student success movement. It was prepared by ACUE and Sova based on decades of research and insights gained by these organizations through direct work supporting hundreds of institutions committed to scaling ambitious, equity-grounded student success reforms.

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Dr. Gyurko is president and co-founder of ACUE and has spent more than two decades leading innovative efforts to create and expand educational opportunities for students at all levels, in the United States and around the world. Gyurko spearheaded ACUE's earliest work with faculty, provosts, presidents and experts to define the evidence-based teaching approaches that every college educator should possess — ACUE's Effective Practice Framework. Together with ACUE's chief academic officer and founding team, Gyurko devised ACUE's online courses in effective teaching and developed ACUE's comprehensive approach to institutional partnerships which encompasses academic, research, planning and communications services. Gyurko formed and maintains ACUE's collaborations with leading higher education associations and national philanthropies, including the American Council on Education, with whom ACUE's credentials are co-issued. He co-authored ACUE's approach to program accountability, which underlies numerous studies demonstrating the positive impact of effective instruction on student outcomes.

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Ms. Snow is the chief data officer at ACUE. In this role, she is responsible for setting and executing a strategic research agenda and supporting a culture of data-driven decision-making across the organization, with the goal of delivering on the mission to ensure student success and equity through quality instruction.

At ACUE, Snow led the development of the organization's approach to evaluating the impact of ACUE's courses on faculty and students at partner institutions. To date, ACUE has published over twelve evaluations demonstrating, in part, improved student performance and improved faculty self-efficacy. Snow has presented papers and sessions about this work at conferences including the Association for the Study of Higher Education, the American Educational Research Association, the Association of American Colleges and Universities, the Professional and Organizational Development (POD) Network, and the Council for Higher Education Accreditation.

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Ms. Ferrell served as executive director of strategic communications at ACUE. A strategic marketing and media leader with extensive experience ranging from brand management and strategy to integrated marketing communications and digital media optimization, Ferrell has dedicated more than a decade of her career to enabling growth for institutions of higher education. Prior to her tenure at ACUE, Ferrell served as director of marketing and media relations at North Carolina State University's Poole College of Management, and served as director of marketing and business development for the Executive MBA and online MBA@UNC programs at the University of North Carolina at Chapel Hill's Kenan-Flagler Business School.

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Dr. Kadlec is a founding partner at Sova, where she leads a body of work focused on accelerating the pace and improving the quality of large-scale, equity-grounded reform of higher education. She has worked with scores of colleges and universities across the country to support the capacity of senior and mid-level leaders to effectively engage members of their communities as constructive partners in the hard work of change on behalf of equitable student success. Alison and her team also work with state policymakers and system leaders in more than half the states in the U.S. to help improve the quality of policy development and implementation around higher education and workforce issues. She has been active in the Guided Pathways movement since its origins, led the 2020 update of the Core Principles for Transforming Remediation, and is working in several states on issues related to scaled redesign of developmental education.

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Founding Partner, Sova

Dr. Markham's work focuses on building and sustaining cultures for innovation and change. Prior to launching Sova, Paul served as vice president for organizational strategy at Public Agenda and vice president for strategic partnerships & development at Achieving the Dream, Inc. Paul also served as senior program officer at the Bill & Melinda Gates Foundation, where he led the Foundation's work focused on developmental education redesign and the creation of Pathways for student success. As

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Ms. Patel's work focuses on equity, inclusion and diversity within higher education. Prior to joining Sova, Ashmi served as the director of the Center for Equity, Inclusion and Diversity at Eastfield College, where she developed programs to enhance students' social and intellectual development, eliminate barriers to student access and success, and develop a culture of equity-mindedness and inclusivity. Previously, as a program associate at the Aspen Institute College Excellence Program, Ashmi worked on executive leadership development for aspiring community college presidents. As a first-generation child of immigrant parents from India, Ashmi has experienced the importance of student success support structures and identity development within colleges.

About The Association of College and University Educators (ACUE)

ACUE promotes student success and equity through quality instruction. In partnership with colleges, universities, higher education systems and associations, ACUE prepares and credentials faculty in the evidence-based teaching practices that improve student achievement and close equity gaps. Numerous and independently validated efficacy studies confirm that students are more engaged, learn more and complete courses in greater numbers — more equitably with their peers — when taught by ACUE-credentialed faculty. ACUE's online, cohort-based credentialing programs are delivered through institutional partnerships and open enrollment courses endorsed by the American Council on Education.

About Sova

Sova is a mission-driven organization focused on promoting equitable upward mobility for more students through reform of higher education and workforce development. Sova's work is based on the conviction that sustainable, scalable, high-quality innovation in higher education and workforce development must be designed and implemented with rigorous attention to the human dimensions of change. Sova's core services are focused on adaptive change leadership, strategic communications and will-building, program strategy and implementation support.



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