

# Designing and Running Micro-Credential Programs

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## RESOURCE LIST as of 14 February 2022

*This list is expanded from an original compilation by [Veronica Diaz](#), EDUCAUSE Director of Professional Learning.*

- American National Standards Institute (ANSI). (2021). *WorkCred*. <https://workcred.org/>.
- Arizona State University. (2020). Course experience. Continuing and Professional Education. <https://cpe.asu.edu/course-experience>.
- Arizona State University. (2020). Digital Credentials Summit. University Technology Office. <https://uto.asu.edu/events/digital-credentials-summit-2020>.
- Barbaschow, A. (2018). RMIT to provide students with blockchain-based digital credential platform. *ZDNet*. <https://www.zdnet.com/article/rmit-to-provide-students-with-blockchain-based-digital-credential-platform/>.
- Beach, G. (2019). Pressed for tech talent, hiring managers consider online credentialing. *Wall Street Journal*. <https://www.wsj.com/articles/pressed-for-tech-talent-hiring-managers-consider-online-credentialing-01546987868>.
- Black, T., Leuba, M., Owczarek, S., Parks, R., & Shendy, J. E. (2016). 7 things you should know about the evolution of the transcript. *EDUCAUSE Briefs*. <https://library.educause.edu/resources/2016/1/7-things-you-should-know-about-the-evolution-of-the-transcript>.
- Bowers, L. & Leh, J. (2017). Associations: Solving the skills gap with digital credentials. *Association Learning* blog. TopClass. <https://www.wbtsystems.com/learning-hub/blogs/solving-skills-gap-digital-credentials-associations>.
- Brandman University. (2019). Brandman MyPath.™ <https://www.brandman.edu/why-brandman/flexible-ways-to-learn/self-paced>.
- Bull, B. (2014). You can now earn a master's degree in #edtech through competency-based digital badges. *EtaLe—Life & Learning in the Digital World*. <https://web.archive.org/web/20140914011502/http://etale.org/main/2014/09/07/you-can-now-earn-a-masters-degree-in-edtech-through-competency-based-digital-badges/>.
- Concentric Sky. (2021). *Badgr Pathways*. <https://staging.info.badgr.com/spotlight/pathways.html>.
- Connecting Credentials. (2016). *Connecting Credentials*. <http://connectingcredentials.org/>.
- Covelli, B. (2020). Bringing stackable credentials into graduate degree programs. *The Evollution*. <https://evollution.com/programming/credentials/bringing-stackable-credentials-into-graduate-degree-programs/>.
- Craig, R. (2017). The “last mile” in education and training. *TechCrunch*. <https://techcrunch.com/2017/06/25/the-last-mile-in-education-and-training/>.
- Credential Engine. (2018). *Credential Engine*. <http://www.credentialengine.org/>.
- Credential Engine. (2021). Counting U.S. postsecondary and secondary credentials. Washington, DC: Credential Engine. <https://credentialengine.org/wp-content/uploads/2021/02/Counting-Credentials-2021.pdf>.
- Deakin Corporation. (2021). *Workplace Credentials*. <https://www.deakinco.com/micro-credentialling>.
- Diaz, V. & Smith, S. (2014). 7 things you should know about badging for professional development *EDUCAUSE Briefs*. <http://www.educause.edu/library/resources/7-things-you-should-know-about-badging-professional-development>.
- Diaz, V., Finkelstein, J., & Manning, S. (2015). Developing a higher education badging initiative. *EDUCAUSE Learning Initiative Briefs*. <http://www.educause.edu/library/resources/developing-higher-education-badging-initiative>.
- Education Design Lab. (2017). The 10 things we've learned from 21st century skills badging. *News and Events*. <https://eddesignlab.org/news-events/the-10-things-weve-learned-from-21st-century-skills-badging/>.
- EDUCAUSE (2021). Microcredentials and Badges Community Group. <https://www.educause.edu/community/microcredentials-and-badges-community-group>.
- EDUCAUSE. (2020). *Badges and Credentialing*. <https://library.educause.edu/topics/teaching-and-learning/badges-and-credentialing>.
- EDUCAUSE. (2021). *Microcredentialing*. <https://www.educause.edu/microcredentialing>.
- European Commission. (2020). A European approach to micro-credentials. *Education in the EU*. [https://ec.europa.eu/education/education-in-the-eu/european-education-area/a-european-approach-to-micro-credentials\\_en](https://ec.europa.eu/education/education-in-the-eu/european-education-area/a-european-approach-to-micro-credentials_en).
- Fain, P. (2016). Digital, Verified and Less Open. *Inside Higher Ed*. <https://www.insidehighered.com/news/2016/08/09/digital-badging-spreads-more-colleges-use-vendors-create>

[alternative-credentials.](#)

- Finkelstein, J., Knight, E., & Manning, S. (2013). *The Potential and Value of Using Digital Badges for Adult Learners*. Washington, DC: American Institutes for Research. [https://iincs.ed.gov/publications/pdf/AIR\\_Digital\\_Badge\\_Report\\_508.pdf](https://iincs.ed.gov/publications/pdf/AIR_Digital_Badge_Report_508.pdf).
- Foundation for California Community Colleges. (2021). 21st century skills badging. <https://foundationccc.org/What-We-Do/Workforce-Development/Workforce-Services/21st-Century-Skills-Badging>.
- Fresno City College. (2018). Fresno City College Business management class first to provide digital badging. <https://www.fresnocitycollege.edu/news/2018/fcc-business-management-class.html>.
- Gallagher, S. (2016). It's Time to Change What We Mean by 'Credential.' *Chronicle of Higher Education*. <https://www.chronicle.com/article/its-time-to-change-what-we-mean-by-credential/>.
- Gallagher, S. (2018). Educational credentials come of age: A survey on the use and value of educational credentials in hiring. Center for the Future of Higher Education & Talent Strategy. Northeastern University. [https://www.northeastern.edu/cfhets/wp-content/uploads/2018/12/Educational\\_Credentials\\_Come\\_of\\_Age\\_2018.pdf](https://www.northeastern.edu/cfhets/wp-content/uploads/2018/12/Educational_Credentials_Come_of_Age_2018.pdf).
- Gallagher, S. (2019). Talent analytics, skills-based hiring and the potential disruption of the degree. *EdSurge*. <https://www.edsurge.com/news/2019-06-24-talent-analytics-skills-based-hiring-and-the-potential-disruption-of-the-degree>.
- Griffith University (2019). Digital badges policy. <https://web.archive.org/web/20201127083433/https://policies.griffith.edu.au/pdf/Digital%20Badges%20Policy.pdf>.
- Griffith University (2021). Griffith Credentials. <https://www.griffith.edu.au/apply/griffith-credentials>.
- Hickey, D. T. & Willis, J. (2017). Where open badges appear to work better: Findings from the design principles documentation project. Bloomington, IN: Indiana University. <http://www.badgenumerique.com/wp-content/uploads/2017/08/DPD-Project-Final-Report-Dan-Hickey-Willis-May-2017.pdf>.
- Hickey, D. T. (2017). How open e-credentials will transform higher ed. *Chronicle of Higher Education*. <https://www.chronicle.com/article/how-open-e-credentials-will-transform-higher-education/>.
- Hopler, W. (2017). Learn a key life skill through the Resilience Badge workshop. Center for the Advancement of Well-being. George Mason University. <https://wellbeing.gmu.edu/articles/11072>.
- iDesign (2020). *LX Pathways*. <https://www.lxpathways.com/>.
- IMS Global Learning Consortium. (2019). Report of the ICDE working group on the present and future of alternative digital credentials (ADCs). <https://www.imsglobal.org/sites/default/files/articles/ICDE-ADC%20report-January%202019.pdf>.
- IMS Global Learning Consortium. (2021). Comprehensive learner record. <http://www.imsglobal.org/activity/comprehensive-learner-record>.
- Institute for Credentialing Excellence. (2019). Strategic questions for organizations considering credentialing programs. <https://drive.google.com/file/d/1XZo0WfSnLOR1mNWjKv16VE8SvsH-Zmn/view>.
- Institute for Credentialing Excellence. (n.d.). Certificate, certification, or both? What's right for you? <https://www.credentialingexcellence.org/Accreditation/New-to-Accreditation/Certificate-vs-Certification>.
- Kelly, R. (2016). Oregon Tech Online launches digital badges. *Campus Technology*. <https://campustechnology.com/articles/2016/07/13/oregon-tech-online-launches-digital-badges.aspx>.
- Kelly, R. (2019). 9 Universities to Collaborate on Digital Credentials Initiative. *Campus Technology*. <https://campustechnology.com/articles/2019/04/23/9-universities-to-collaborate-on-digital-credentials-initiative.aspx>.
- Knapp, L. G. & Knapp, J. E. (2017). *The Business of Certification: Creating and Sustaining a Successful Program*. 2nd ed. Center for Association Leadership. <https://www.asaecenter.org/publications/108953-the-business-of-certification-creating-and-sustaining-a-successful-program-2nd-edition>.
- Koenig, R., (2019). How well do soft-skill badges work for job seekers? *EdSurge*. <https://www.edsurge.com/amp/news/2019-07-17-how-well-do-soft-skill-badges-work-for-job-seekers-new-study-aims-to-find-out>.
- Leaser, D. (2016). Attract, engage, and develop talent using open badges: An IBM case study. *HR Innovators* virtual conference. <https://vimeo.com/184411145>.
- Lederman, D. (2019). Alternative credentials as institutional 'imperative.' *Inside Higher Ed*. <https://www.insidehighered.com/digital-learning/article/2019/02/06/report-predicts-alternative-credentials-sweeping-impact-higher>.
- LeDuc, B. (2016). What your next transcript might look like (and who is working on it). Personal blog. <https://web.archive.org/web/20160405063417/http://www.brianfleduc.com/2016/03/17/next-transcript-might-look-like-working/>.

- Merisotis, J. (2016). Credentials reform: How technology and the changing needs of the workforce will create the higher education system of the future. *EDUCAUSE Review*. <https://er.educause.edu/articles/2016/5/credentials-reform-how-technology-and-the-changing-needs-of-the-workforce-will-create-the-higher-ed>.
- Newhouse, D. & Getz-Kikuchi. (2017). Whisper courses: on-the-job microlearning with email. *Work with Google*. <https://rework.withgoogle.com/blog/whisper-courses/>.
- Overland, S. (2016). Pioneering study reveals more than 90 percent of colleges and universities embrace alternative credentials. *UPCEA News*. <https://upcea.edu/pioneering-study-reveals-90-percent-colleges-universities-embrace-alternative-credentials/>.
- Parks, R. & Parrish, J. (2017). Today's comprehensive record: An evolutionary case study. *EDUCAUSE Review*. <https://er.educause.edu/articles/2017/7/todays-comprehensive-record-an-evolutionary-case-study>.
- Parrish, J., Fryer, J., & Parks, R. (2017). Expanding the academic record: Revolutionizing credentials. National Association of Colleges and Employers. *NACE Journal*. <https://www.nacweb.org/job-market/trends-and-predictions/expanding-the-academic-record-revolutionizing-credentials/>.
- PBS NewsHour. (2016). Giving students a leg up with job skills a resume won't show. <https://youtu.be/KGdHNtLlcrq>.
- Pelc, C. (2016). Making sense of and leveraging learning analytics—Higher education's emerging institutional asset. *Acrobatiq White Paper Series*. Carnegie Mellon University. <https://sf-asset-manager.s3.amazonaws.com/96945/2/19.pdf>.
- Pelletier, K., et al. (2021). Microcredentialing. *EDUCAUSE Horizon Report, Teaching and Learning Edition*. Boulder, CO: EDUCAUSE. p. 22. <https://library.educause.edu/-/media/files/library/2021/4/2021hrteachinglearning.pdf>.
- Petrillo, T. (2017). The value of a value proposition study. *ICE Digest*. [http://www.nxtbook.com/nxtbooks/smithbucklin/ice\\_digest\\_2017q3/index.php#/12](http://www.nxtbook.com/nxtbooks/smithbucklin/ice_digest_2017q3/index.php#/12).
- Plourde, M. C. (2019). New soft skills assessment helps connect opportunity youth to work. Press Releases. Southern New Hampshire University. <https://www.snhu.edu/about-us/newsroom/2019/05/soft-skills-assessment>.
- Porter, D. (2018). The value of micro-credentials and badging needs continual clarification. *WCET Frontiers*. <https://wctfrontiers.org/2018/12/14/value-micro-credentials-badging/>.
- Purdue University Online (2021). Competency badges in the online MEd in learning design and technology. Kaplan Higher Education. <https://online.purdue.edu/programs/education/masters-in-education-learning-design-technology/digital-competency-badges>.
- Rees-Johnstone, E. (2018). How everyone benefits from badging: A guide to mainstreaming digital credentials. *The Evollution*. <https://evollution.com/programming/credentials/how-everyone-benefits-from-badging-a-guide-to-mainstreaming-digital-credentials/>.
- Selingo, J. J. (2018). Forget coding. It's the soft skills, stupid. And that's what schools should be teaching. *Washington Post*. <https://www.washingtonpost.com/news/grade-point/wp/2018/04/20/the-top-job-skills-schools-arent-teaching-well-and-its-not-coding-or-math/>.
- Shendy, J. E. & Bream, I. (2018). A new learning model paired with a new kind of transcript—Digital style. *IMSGlobal Learning Impact* blog. <https://www.imslobal.org/article/extendedtranscriptUMUCpilot>.
- Skipper, W. (2018). Can education keep up with technology? *EDUCAUSE Review*. <https://er.educause.edu/blogs/2018/9/can-education-keep-up-with-technology>.
- Smith, S. R. (2015). 10 lessons learned in launching an award winning digital badging program. *Next Gen Learning* blog. <http://nextgenlearning.org/blog/10-lessons-learned-award-winning-digital-badging-program>.
- Soares, L. (2021). How digital credentialing is driving the shift towards a learning economy. *The Evollution* blog. <https://evollution.com/programming/credentials/how-digital-credentialing-is-driving-the-shift-towards-a-learning-economy/>.
- Sullivan, C. (2021). Developing digital badging and microcredential strategies. *The Evollution*. <https://evollution.com/programming/credentials/developing-digital-badging-and-microcredential-strategies/>.
- SURF. (2020). Edubadges: issuing digital certificates to students. <https://www.surf.nl/en/edubadges-issuing-digital-certificates-to-students>.
- SURF. (2020). *Lessons learned: Pilot edubadges*. [https://www.surf.nl/files/2020-06/edubadges\\_lessons\\_040620\\_eng-def.pdf](https://www.surf.nl/files/2020-06/edubadges_lessons_040620_eng-def.pdf).
- The State University of New York (SUNY). (2021). Micro-Credentials at SUNY. <http://system.suny.edu/academic-affairs/microcredentials/>.
- University at Buffalo. (2021). Office of Microcredentials. <https://www.buffalo.edu/micro-credentials.html>.
- University of Alaska Anchorage. (2014). Tech fellows badge constellation. <https://docs.google.com/document/d/1W9v-7RivSWopg2A1Qm7G7PHcmJihtqBwbcR5s4g5RqA/edit>.
- University of Maine System. (2021). Micro-Credentials. <https://www.maine.edu/student-success/micro-credentials/>.
- University of North Texas. (2021). Career Connect. <https://vpaa.unt.edu/careerconnect>.
- University of South Florida. (2019). Career readiness badging program. <https://www.usf.edu/career-services/career-ready/>.

- University of Wisconsin. (2021). Curriculum Organization, Revision, and Evaluation (CORE) Project Overview. Madison, WI: University of Wisconsin-Madison. <https://www.dropbox.com/s/nrm4297yw3eau5h/UW-Madison%20CORE%20Project%20Overview.pdf?dl=0>.
- Vander Ark, T. (2018). Rethinking the college pipeline: Leading university gains youth badging platform. *Forbes Magazine*. <https://www.forbes.com/sites/tomvanderark/2018/10/30/rethinking-the-college-pipeline-leading-university-gains-youth-badging-platform/>.
- WCET. (2019). *Credentials*. <http://wcet.wiche.edu/focus-areas/student-success/credentials>.
- William E. Kirwan Center for Academic Innovation. (2018). *Badging Essential Skills for Transitions (B.E.S.T.)*. University System of Maryland. <http://www.usmd.edu/cai/usm-digital-badging-initiative>.
- Willis, J., Strunk, V., & Hardtner, T. (2016). Microcredentials and educational technology: A proposed ethical taxonomy. *EDUCAUSE Review*. <https://er.educause.edu/articles/2016/4/microcredentials-and-educational-technology-a-proposed-ethical-taxonomy>.
- Young, J. R. (2018). Bringing order to 'badges': Nonprofit works with colleges on framework to measure soft skills. *EdSurge*. <https://www.edsurge.com/news/2018-04-25-bringing-order-to-badges-nonprofit-works-with-colleges-on-framework-to-measure-soft-skills>.
- Zanville, H. (2017). Lumina Foundation interviews edX about new MicroMasters® programs. *Focus Magazine*. <https://www.luminafoundation.org/news-and-views/lumina-foundation-interviews-edx-about-new-micromasters-programs>.