Classroom Observation Protocols

Reformed Teaching Observation Protocol (RTOP)

This classroom observation protocol measures the extent to which a class embodies À $CE_{\mu} + u_{\mu} + u_{\mu} + v_{\mu} + v_{\mu} + c_{\mu} +$

ReferencePiburn,M., and Sawada, D. (2000). Reformed Teaching Observation Protocol (RTOP) Reference Manual. ACEPT Technical Report.

Teaching Dimensions Observational Protocol (TDOP)

This classroom observation protocol uses a **twio** ute time sampling method to track classoom teaching practices across five different dimensions: teaching methods, pedagogical strategies, studet teacher interactions, cognitive engagement, and instructional technology. The TDOP was based on a protocol by Osthoff et al. (2009).

Hora, M. T.and Ferrare, J. J. (2013). Instructional systems of practice: A multidimensional analysis of math and science undergraduate course planning and classroom teaching. J. Learn. Sci. 22,t252.

ReferenceOsthoff, E., Clune, W., Ferrare, J., Kretchma& MV, hite, P. (2009). Implementing immersion: Design, professional development, classroom enactment and learning effects of an extended science inquiry unit in an urban district. Madison: University of WisconsitMadison, Wisconsin Center for Educational Reeste.

Webpage: http://tdop.wceruw.org/

Classroom Observation Protocol for Undergraduate STEM (COPUS)

This classroom observation protocol uses a **twio** ute time sampling method to track instructor and studentdores d. 51r14.94 T /F3 126--- st

UTeach Observation Protocol (UTOP)

This observational instrument can be used to assess the overall quality of classroom instruction from kindergarten to the undergraduate level. The UTOP was designed to allow individuals to evaluate teaching effectiveness, while valuing different modes of instruction.

Webpage: http://utop.uteach.utexas.edu/

OregonTeacher Observation Protocol (OOP)

This observation protocol measures implementation of ref**dras**ed teaching strategies.

ReferenceWainwright, C. L., Flick, L. B., and Morrell, **R**2003). Development of instruments for assessment of instructional practices in standbacksed teaching. Journal of Mathematics and Spice: Collaborative Explorations26:t46.

Inquiring into Science Instruction Observation Protocol (ISIOP)

This classroombservation protocol is designed to assist evaluators and researchers in determining the extent to which quality pedagogical practices and instruction about scientific inquiry are present in secondary science teaching.

Webpage: http://isiop.edc.org/

Partnership for Undergraduate Life Sciences Education (PULSE) Vision and Change Rubrics

These rubrics were developed by the PULSE Vision & Change Leadership Fellows to help departments selfassess the extent to which they have adopted the instructional principles outlined in the vision and Change port (2011).

ReferenceAguirre, K. M., Balser, T. C., Jack, T., Marley, K. E., Miller, K. G., Osgood, M. P., PapeLindstrom, P. A., and Romano, S. L. (2013). PULSE Vision & ObeiogeCBE Life Sci Educ 1279t581.

American Association for the Advancement of Science (AAAS) (2011). Vision and change in undergraduate biology education: A call to action, Washington, D.C.

Self-Assessment of Teaching Practices and Beliefs

Approaches to Teaching Inventory (ATI)

The original instrument designed by Prosser and Trigwell (1999) is composed of 16 items $\check{s} Z \check{s} u \bullet \mu \times \check{s} A \bullet \mathscr{O} E \check{s}] u v \bullet] \vee \bullet \bullet \langle v] v \bullet \check{s} \times \check{C} \mu \check{s} \times \check{C} [\bullet \check{s} Z]$ determines the degree to which an instructor is focused on conceptual change/stude focused (CCSF). The other scale measures the degree to which an instructor is focused on information transmission/teachefocused (ITTF). An additional part of the survey developed by Lindblom-Ylanne et al. (2006) Æ ‰ o } CE • š Z CE • [u } š] Å š] v v regulation strategies, including sellegulation, external regulation, and lack of regulation.

ReferencesTrigwell, K., Prosser, M. & Waterhouse, F. (1999) Relations between š Z OE • [‰ ‰ OE } Z • š } š Z] v P Vearneišgu, Highšen Edu Waen‰ OE } Z š } 37:73 t83.

Trigwell, K. & Prosser, M. (2004). Development and use of the Approaches to Teaching Inventory, Educational Sychology Review, 14609 t424.

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Z vPU dXU >]vU ,XU v ^}vPU DX ~îìíí•X hv]À Œ•]šÇ (μοšο teaching efficacy. Innovations in Edu**c**antiand Teaching International 48, **469**0.

d Z $CE[\bullet \land v\bullet \}(([] \ Ç \land o \sim d\land \land \bullet X \ o\bullet \} |v\} Av \bullet KZ]$ Efficacy Scale (OSTES).

v]v•šŒµu vššZšu •µŒ• š ZŒ[••v•}(((] Ç}v vP and management. Access to timestrument can be found at http://u.osu.edu/hoy.17/research/instruments/

Reference: Tschanner Moran, M., & Woolfolk Hoy, A. (2001). Teacher efficacy: Capturing and elusive constructeaching and Teacher Education, **78**-3-805.

Teacher Efficacy ScattesLong Form

An 22 item instrument that measures teaching efficacy and personal efficacy. Access to the instrument can be found at http://u.osu.edu/hoy.17/research/instruments/.

Reference:t}}o(}oIU X XU ~, }ÇU tX < X ~íõõì•s&of//ef0Ecajery‰ š]À š and beliefs about controllournal of Educational Psychology, 82-91.

Teacher Efficacy Scale (TES) Short Form

A 10 item instrument that measures teaching efficacy and personal efficacy. Access to the instrument can be found **att**tp://u.osu.edu/hoy.17/research/instruments/.

ReferenceHoy, W. K., & Woolfolk, A. E. (1990). Organizational socialization of student teachers American Educational Research Journal, 2279-300.

College Teaching Settificacy Scale (CTSES)

This is a 51 tem general teaching set officacy scale for college professors.

Prieto-

ReferencePrieto, L.R., AltmaierE.M. (1994). The relationship of prior training and previous teaching experience to selfficacy among graduate teaching assistants. Research in Higher Education5.(4), 481497.

Graduate Student Teacher Development and Self