@Renetta_Tull
#ThinkBigDiversity

THE SCIENCE OF EFFECTIVE MENTORING IN STEMM

Renetta Garrison Tull, Ph.D.

Vice Chancellor

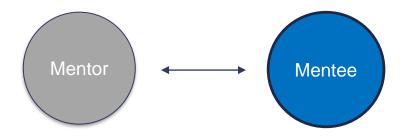
Diversity, Equity, & Inclusion – University of California, Davis

Successes in STEM Education, Research, and Workforce Preparedness at Minority Serving Institutions | Thursday, June 9, 2022





MENTORSHIP MODEL: DYAD



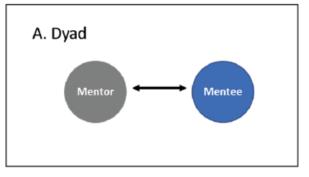
Reference: NASEM Science of Effective Mentoring in STEMM, Chapter 4;

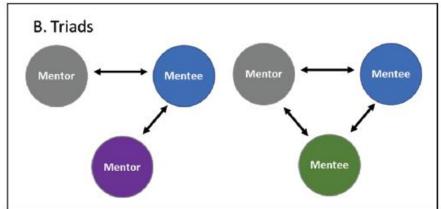
Commissioned paper: "Mentoring beyond Hierarchies: Multi-Mentor Systems and Models," (Beronda L. Montgomery & Stephani C. Page) 2019



@Renetta_Tull
#ThinkBigDiversity

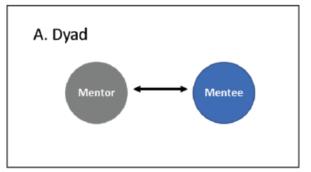
MENTORSHIP MODELS

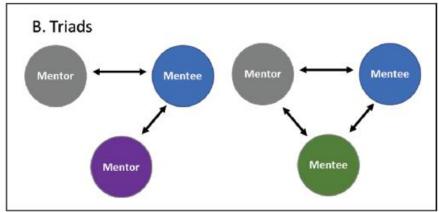


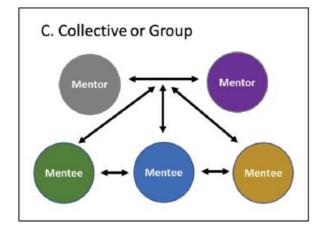




MENTORSHIP MODELS

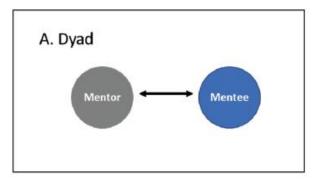


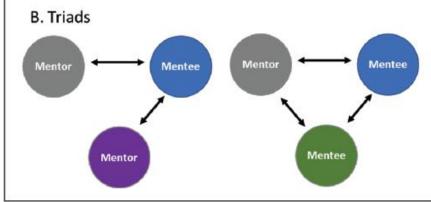


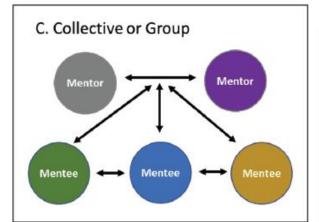


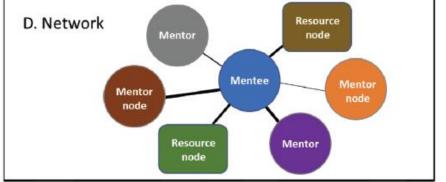


MENTORSHIP MODELS











Reference: NASEM Science of Effective Mentoring in STEMM, Chapter 4;

RECOMMENDATIONS

- 1. Be clear about what mentoring is; consider the **operational definition**
- 2. Use **evidence-based approaches**; support mentorship professional development for mentors and mentees
- 3. Have a structured feedback system
- 4. Recognize and respond to identities
- 5. Support multiple mentorship structures
- 6. **Reward** effective mentorship
- 7. **Mitigate** negative mentorship experiences
- 8. For agencies: **Integrate mentoring** education, tools, research, and evaluation into grant activities