

RESC 5860 - Technology Applications for Health and Human Services

Fall 2026 Syllabus, Section A01, CRN 43272,

Credit hours: 3

Instructor

John Komara

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Public Instructor Information

Professor: John J. Komara Jr. MBA/HCM, RRT

Adjunct Graduate Faculty-Respiratory Care and Health Professions; Youngstown State University. Former Administrator and Voting Scientific Board Member: Office of the Institutional Review Board (IRB) Cleveland Clinic Health System, Cleveland, Ohio.

Education: MBA/HCM, University of Phoenix, Arizona, Summa cum laude (2006). BA, Ursuline College, Pepper Pike, Ohio (1988). AS, Cuyahoga Community College, Parma, Ohio (1977).

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Course Description

5860. Technology Applications for Health and Human Services. Exploration of technology applications for education, presentations, communications and management in Health and Human Service disciplines. Creation of digital media such as audio and/or video files, spreadsheet macros, e-portfolios and Web-based applications of various technologies will be required. Application of technology to education, supervision or management will be evaluated through completion of a technology-enhanced project. Prereq.: Acceptance in MRC program. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Readings provided in course modules		

No specific textbook required for this critical thinking course. Students are provided with weekly Instructor micro-lectures supplementing course module learning objectives (MLO's). Each course module (7) contains several peer-review professional publications aligning with each course module's scope of instructional content.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Instructor Micro-lecture: Technology Applications in HHS What Is Healthcare Technology? Applications and Benefits (2025) Ten Technologies That are Changing Healthcare (2025)	Technological Applications in Health and Human Services (HHS) Role and function of HHS agencies	Written Assignment: The Role of Technological Applications in Health and Human Services (HHS) Discussion Forum #1: Literature Search- HHS agencies (NIH, FDA, and CDC)
8/31	Instructor Micro-lecture: Digital Platforms (2026) HIPAA Guidelines on Telemedicine (2026) Data Base Management (2025) Slide Presentation: Emerging Technology and the Security Implications for the Health Sector (2022)	Systematic collection, storage, and distribution of health-related data for education, research and management Digital accessibility guidelines and standards for HHS agencies Understanding data analytics and security platforms	Written Assignment: Digital Health and Digital Literacy in Education, Research and Management Discussion Forum #2: Digital Platforms in HHS



9/7	Instructional Presentation: Accessibility to HHS Related Digital Content (2026) Digital Millennium Copyright Act (2026) Instructor Micro-lecture: Legal Considerations, Accessibility and Ethical Principles (2026)	Establishing ethical frameworks in digital health platforms Digital Millennium Copyright Act (DMCA) HHS Related Digital Content Accessibility	Written Assignment: Legal and Ethical Considerations in Technology-Related Information Platforms Discussion Forum #3: Digital Millennium Copyright Act Module-3: MSPPT Slide Presentation-Legal Considerations, Accessibility and Ethical Principles
9/14	Instructor Micro-lecture: Educational Technology and Learning Outcomes (2026) Key Factors Influencing Educational Technology Adoption in Higher Education: A Systematic Review (2025) Evaluating Resources and Misinformation: The CRAAP Test (2025)	Educational Technology and Learning Outcomes Factors Influencing Educational Technology Adoption in Higher Education Evaluating Resources and Misinformation	Written Assignment: Technology-Based Learning Platforms Discussion Forum #4: Digital Education Based Tools and Learning Applications
9/21	Written Assignment: Technology Applications in Healthcare Education, Research or Management Proposal Discussion Forum #5: Emerging Applications in Healthcare & HHS Module-5: MSPPT Slide Presentation with Digital Audio or Video (Telemedicine, AI, ML or CDS)	Digital Applications and Multimedia HHS Promotion of Health Information Sharing and Interoperability New Efforts to Advance Electronic Health Information Sharing Healthcare Interoperability: New Tactics and Technology	Written Assignment: Technology Applications in Healthcare Education, Research or Management Proposal Discussion Forum #5: Emerging Applications in Healthcare & HHS Module-5: MSPPT Slide Presentation with Digital Audio or Video (Telemedicine, AI, ML or CDS)
9/28	Artificial Intelligence (AI) Applications Instructor Micro-lecture: Artificial Intelligence (AI) within the HHS Publication Reviews: • Artificial Intelligence Strategy. (HHS, 2025) • Sharing and Utilizing Health Data for AI Applications. Center for Open Data Enterprise (2019) • Artificial Intelligence in Health Care: Insights from an Educational Forum. Journal of Medical Education (2020) Video Presentation: Rose, D. Introduction to Artificial Intelligence (2024)	Artificial Intelligence (AI) within the HHS Sharing and Utilizing Health Data for AI Applications Artificial Intelligence in Health Care: Insights from an Educational Forum Artificial Intelligence (AI) Platforms	Written Assignment#1: 5-Pillars Underlying the HHS AI Strategy in 2025 and Beyond Written Assignment#2: Technology Applications in HHS- Comprehensive Project Discussion Forum #6: Artificial Intelligence (AI) Platforms
10/5	Instructor Micro-lecture: Primary Cybersecurity Challenges in HHS (2026) The Top 5 Cyber Security Concerns for the Healthcare Industry. Spotts, M. (2025) Health Industry Cybersecurity Practices- Managing Threats and Protecting Patients (2015) The Cybersecurity Threat Ailing Healthcare. The Econofact Network (2023) Healthcare Sector Cybersecurity. (HHS, 2023)	Cybersecurity Challenges in HHS Health Industry Cybersecurity Practices- Managing Threats and Protecting Patients The Cybersecurity Threat Ailing Healthcare	Written Assignment: Identifying Cybersecurity Vulnerabilities and Threats Discussion Forum #7: Best Practices for Protecting Digital Platforms and Computer Systems Assignment: MSPPT Slide Presentation with speaker notes/audio file: AI Applications within HHS Agencies

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.