EMPOWERING FUTURE FOREIGN LANGUAGE TEACHERS: INTEGRATING INFORMATION COMPETENCE THROUGH LEARNER-CENTERED STRATEGIES

F.E. Kultayeva
Acting associate professor of the Department of Foreign Languages, Samarkand State University of Architecture and Construction
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Abstract. *This article examines developing information competence in future foreign language teachers specifically via a learner-centered approach. It explores theoretical foundations and practical strategies including digital literacy, technology integration, and collaborative learning to foster autonomous and critical thinking skills. The study concludes that this framework significantly enhances pedagogical adaptability and active engagement, qualities which are vital for modern language education.*

Keywords: *information competence, learner-centered approach, foreign language teachers, teacher education, digital literacy, autonomous learning, pedagogy, critical thinking.*

Introduction

The rapid expansion of digital information resources has become one of the most defining trends of the 21st century, profoundly transforming the landscape of modern education. The accessibility of vast online databases, open educational resources, and multimedia libraries has fundamentally altered how knowledge is accessed, created, and shared. For foreign language educators, this digital revolution presents both unprecedented opportunities and significant challenges. The modern language teacher must function not merely as an instructor but as a curator, a critical evaluator, and a skilled integrator of authentic, culturally relevant materials drawn from diverse digital sources. Improving the professional competence of future foreign language teachers is essential to ensuring effective language instruction in an increasingly globalized world.

This process involves enhancing not only linguistic proficiency but also pedagogical skills, cultural awareness, and the ability to integrate modern technologies into teaching practices. According to Yusupov (2025), the professional competence of future foreign language teachers must now encompass a broader range of digital and pedagogical fluencies to meet global standards. While many academic programs acknowledge the importance of information skills in general terms, they often lack the granular detail required for effective pedagogy – specifically missing detailed strategies, explicit learning outcomes, and robust assessment tools.

The integration of information competence into the education of future foreign language teachers finds its theoretical foundations in Constructivism and Connectivism. Constructivist learning theory, which emphasizes active engagement and the construction of knowledge through experience, is foundational to the use of technology in education. As Jonassen (1999) suggests, digital tools allow learners to interact with content and collaborate with peers, transforming passive reception into active meaning-making. This is further extended by Siemens' (2005) theory of Connectivism, which views learning as the process of connecting specialized nodes or information sources. In the digital era, platforms enable learners to build vast networks and access diverse

global communities, fostering continuous learning that transcends traditional classroom boundaries.

Furthermore, the effectiveness of integrated information competence development relies heavily on how electronic and digital content is structured. According to Cognitive Load Theory (Sweller, 1988), managing a learner's mental effort is crucial when navigating complex information. This is complemented by Multimedia Learning Principles (Mayer, 2001), which suggest that a strategic combination of text, visuals, and audio in digital resources enhances comprehension and retention. For future foreign language teachers, mastering these principles is essential, as electronic resources provide the flexibility and wealth of information needed to support diverse learning needs (Smith & Caruso, 2010). Zayniyeva (2025) emphasizes that organizing the learning process through electronic resources, digital platforms, and interactive tools offers significant advantages when thoughtfully integrated and aligned with established pedagogical theories. By leveraging these technologies, educators can foster active, personalized, and inclusive learning environments that prepare future teachers for authentic classroom challenges.

Information competence, often used interchangeably with information literacy, encompasses a sophisticated set of skills: locating, evaluating, managing, and ethically utilizing information across various formats (American Library Association, 1989). In the context of foreign language teacher education, this competence extends beyond generic information skills to include curating authentic materials by identifying and selecting culturally relevant texts, audiovisual content, and digital resources that reflect target language communities; critical evaluation through assessing the credibility, accuracy, and cultural appropriateness of sources for language teaching contexts; ethical use through understanding copyright, attribution, and responsible integration of materials; and pedagogical integration by transforming information resources into teachable content that supports language learning objectives.

The significance of this competence in foreign language teacher education is paramount, as modern educators must navigate vast and diverse information sources, including digital texts, audiovisual materials, and online platforms. Developing this competence equips future teachers to curate relevant content, adapt their teaching strategies dynamically, and promote learners' independent inquiry. Furthermore, information competence supports continuous professional development by enabling teachers to stay abreast of linguistic, cultural, and technological advancements, thereby aligning teacher education with global educational standards that emphasize digital literacy.

The central thesis of this work is that information competence is best cultivated through learner-centered strategies, and conversely, that true learner autonomy in the modern age is unattainable without robust information skills. This synergistic relationship forms the foundation for a comprehensive framework guiding curriculum redesign and pedagogical practice. Grounded in humanistic education, the learner-centered approach prioritizes student autonomy and personalized learning trajectories, shifting the educator's role from primary knowledge transmitter to facilitator and guide. The synergy between information competence and learner-centered pedagogy fosters reflective practice and lifelong learning, empowering future teachers to remain adaptable within a rapidly evolving digital landscape.

To cultivate information competence effectively, a learner-centered approach employs diverse pedagogical strategies. Collaborative learning through group projects and peer-review activities allows learners to share diverse perspectives and collectively assess information sources,

enhancing critical thinking and evaluative skills. Problem-Based Learning situates future teachers in authentic scenarios where they must identify information needs, conduct targeted research, and apply their findings to solve real-world language teaching challenges, promoting inquiry and contextualizing information use within meaningful professional contexts. Technology integration leverages digital tools such as language learning applications, online corpora, and multimedia platforms, increasing access to authentic materials while familiarizing future teachers with the digital literacy skills critical for modern pedagogy. Reflective practice, incorporating journals and self-assessment, encourages learners to monitor their information-seeking behaviors and evaluate their strategies, cultivating self-awareness essential for professional growth. Scaffolded support provides structured guidance initially, gradually transferring responsibility to learners to build confidence and autonomy in managing information for their future teaching practice.

Electronic resources and interactive tools offer practical applications for developing information competence in foreign language teacher education. Electronic resources – including e-books, online journals, educational databases, and multimedia libraries – offer four primary benefits. Accessibility and flexibility enable learners to access materials on-demand, facilitating self-paced study and accommodating diverse learning schedules. Up-to-date content ensures learners engage with current linguistic and cultural information essential for authentic language instruction. Multimodal presentation incorporates text, images, videos, and interactive components that cater to varied learning styles and support differentiated instruction. Cost-effectiveness reduces the need for physical textbooks and materials, making quality educational content more accessible. Interactive tools refer to digital applications and devices that require learner input and provide immediate feedback, including quizzes, polls, simulations, virtual labs, gamified activities, and augmented reality experiences (Hwang & Chang, 2011).

These tools promote active participation, increasing learner motivation and attention. Gamification elements such as points, badges, and leaderboards create competitive yet supportive learning environments that encourage persistence (Deterding et al., 2011). Adaptive learning technologies analyze learner responses to customize content difficulty and learning paths, addressing individual learner needs and helping to close achievement gaps (Walkington, 2013). From a pedagogical standpoint grounded in Self-Determination Theory (Deci & Ryan, 2000), digital tools enable learners to take ownership of their professional development through self-assessment, goal setting, and reflection. Providing learners with choices in activities and resources fosters intrinsic motivation and cultivates lifelong learning skills essential for continuous professional growth.

Implementing information competence development within teacher training programs requires comprehensive curriculum redesign that embeds information skills across both content and pedagogical courses. This integration aligns theoretical knowledge with practical application, ensuring future teachers acquire hands-on experience in managing information effectively. Key implementation components include embedding explicit information competence objectives within language teaching methodology and educational technology courses to contextualize skills within meaningful professional frameworks. Dedicated workshops on digital literacy and research methodologies should introduce contemporary digital tools, search strategies, and evaluation criteria for authentic materials.

Assessment practices must evolve to evaluate both linguistic proficiency and information handling through research projects, digital content creation, and critically-vetted lesson planning. Fostering interdisciplinary collaboration between pedagogical faculty and information specialists

– such as librarians – provides expert guidance and promotes best practices in information management. Technology-enhanced learning environments that simulate real-world contexts prepare future teachers for authentic classroom challenges, ensuring competence is woven into the fabric of teacher education.

Despite growing awareness of these needs, a significant gap persists between theoretical recognition and practical implementation. Several challenges impede the systematic development of information competence. The digital divide and resource disparities among institutions can impede equitable skill development, necessitating institutional investment in infrastructure and technology access. Resistance to pedagogical change from faculty and learners accustomed to traditional methods must be overcome through professional development and a culture that values experimentation.

Faculty themselves may lack sufficient training in information literacy, requiring targeted professional development programs. Curriculum overload presents a further challenge, as incorporating new competencies into dense curricula requires strategic planning to avoid superficial coverage of essential skills. Designing authentic, performance-based assessments for information competence is complex and requires clear rubrics and faculty expertise in evaluating complex competencies. To bridge the gap between theory and practice, several recommendations are proposed for teacher education programs. Curriculum infusion involves integrating digital literacy objectives into every module, from linguistics to practicum, ensuring information competence development is continuous and contextualized.

Performance-based assessment evaluates candidates on their ability to create digitally-enhanced, critically-vetted lesson plans that demonstrate information competence application. Interdisciplinary collaboration fosters systematic partnerships between pedagogical faculty and information specialists to embed expert guidance throughout the curriculum. Institutional policy advocacy promotes investment in infrastructure and open educational resources to mitigate the digital divide and ensure equitable access. Gradual integration introduces information competence development progressively, allowing faculty and learners time to adjust while maintaining depth of coverage. Reflective practice encourages systematic reflection on information-seeking behaviors and evaluation strategies to foster openness to change and continuous improvement. By advocating for institutional policies that support innovation and resource allocation, teacher education programs can proactively create sustainable environments that nurture information competence.

In the contemporary educational landscape, the role of a foreign language teacher extends far beyond linguistic instruction. The convergence of digital expansion with evolving pedagogical theories demands educators who are not only proficient in a target language but also adept at navigating a complex information ecosystem. The integration of information competence into the education of future foreign language teachers is not a mere optional enhancement but a fundamental necessity. As this article has argued, the synergy between pedagogical theory and digital tools creates a powerful cycle: learner-centered strategies build information skills, and robust information skills, in turn, enable true learner autonomy.

Conclusion

By synthesizing learner-centered pedagogy with targeted information skills – grounded in constructivist and connectivist frameworks, informed by cognitive load theory and multimedia learning principles, and supported by the work of researchers such as Zayniyeva (2025) and Yusupov (2025) – we can cultivate professionals capable of fostering critical thinking, autonomy,

and lifelong learning. The future of foreign language education depends on our ability to prepare teachers who are not just linguistically proficient, but who are also master navigators of the global information ecosystem. Ultimately, these educators will be equipped not only to manage information effectively for their own professional growth but also to model and instill these essential literacies in their students, thereby fostering a cycle of lifelong learning and critical inquiry in an increasingly complex digital world.

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