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**Teaching mathematics in teacher training. (Matemáticas y su didáctica en magisterio.)**

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Summary: This paper looks at initial teacher training in mathematics within the framework of the new degree system designed to fit in with the European Higher Education Area (EHEA). It sets out the skills that students should acquire and also looks at the points of continuity that should govern teacher training, as well as exploring current challenges in mathematics education.

Resumen: Se presenta la formación inicial en matemáticas y su didáctica en el marco de los nuevos grados en Magisterio adaptados al Espacio Europeo de Educación Superior (EEES). Se describen las competencias que los estudiantes deben alcanzar. Por último, se determinan los núcleos de continuidad que deben regir la formación y los retos actuales en matemáticas y su didáctica.

*Classification:* D39 B50

*Keywords:* initial teacher training; training preschool teachers; training primary teachers; primary school; teaching degrees; teaching mathematics; mathematical competences; teaching competences; points of continuity