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Empirical study on course selection network of Yangzhou University¹ CHUN-HUA FU, HUI CHANG, DA-REN HE, Yangzhou University — We empirically investigate the course selection network of Yangzhou University. In the network the vertices are defined as courses, two vertices are connected by an edge when they are selected by the students in a common college. A college is defined as an act. The student number who selects the course is defined as the vertex weight. Some statistical properties have been obtained. The degree distribution shows an exponential decay. The clustering coefficient shows an exponential decay dependence on both the vertex degree and the vertex act degree. The assortativity shows an approximate zero number. The cumulative vertex weight distribution shows a power law. These results may be helpful for understanding the relationship between different scientific subjects in universities.

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