The simulations in Section 4 of the main paper comprise a range of linear combinations of these matrices:

$$\omega = \lambda \cdot \omega_{\text{community}} + \mu \cdot \omega_{\text{core}} + (1 - \lambda - \mu) \cdot \omega_{\text{random}} \tag{5}$$

To create a random community structure, we selected mixing matrix values $(\lambda = 0.0, \mu = 0.0)$. To create a block structure and establish block 1 as the network core, we selected mixing matrix values $(\lambda = 0.3, \mu = 0.3)$.