I think I understand now how the Condon rules don't mention spin explicitly, but spin is something that has to be considered when using them to evaluate a matrix element. So for the integral of the coul.umb type $[mm|nn]$, spin would not be involved, but for the integral of the exchange type $[mn|nm]$ spin would be involved. take the example where m=0 and n=1 for spin orbs. then, $[mm|nn] = (mm|nn)$.however,$[mn|nm] = [01|10] = \int dr_2 dr_1 \alpha^*(r_1)\beta(r_1)\beta^*(r_2)\alpha(r_2)(00|00) = 0 * 1 = 0$ I imagine spin would be involved for the second type because of this fact. I'm not sure how to implement this though, because I know that I have my initial form covered, but I don't know how I would factor in the cancellations that result from spin. I have linked my implementation of the mathematics to this comment.